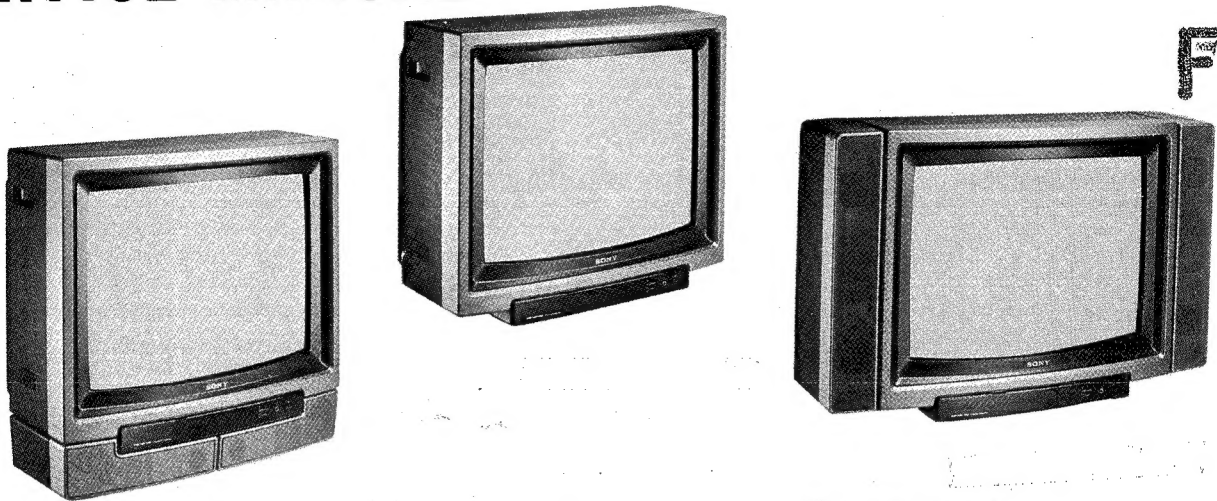


KV-2720/22/24ES

SS-2722/24/RM-630

SERVICE MANUAL

AEP Model
Chassis No. SCC-444A-A



F03

October, 1982

QEX CHASSIS

SPECIFICATIONS

Television system	CCIR TV standards (system B, G and H)
Color system	PAL
Zweiton system	Two-carrier system
Channel coverage	VHF channels 2-12 UHF channels 21-68
Programing system	30 programs Automatic programing digital tuning
Picture tube	Approx. 68 (27 inches), 114-degree deflection Trinitron system (Approx. 64 cm screen measured diagonally)
Antenna	75-ohm standard antenna socket (DIN45325/IEC169-2)
Audio output	15 W + 15 W (music power)
Input	AV IN connector (6-pin DIN) Video input: 1.0 V p-p, impedance 75 ohms, sync negative Audio input: 0.4-2.0 Vrms impedance more than 50 kilohms
Outputs	Audio recording output (5-pin DIN) 1 mVrms/kilohm External speaker terminals (2-pin DIN) For 8-ohm speakers Headphones jack (stereo phone jack)
Power requirements	220-240 V ac, 50 Hz
Power consumption	150 W (Approx. 11 W in standby condition)

Dimensions	KV-2720ES: Approx. 668 × 581 × 473 mm (w/h/d) KV-2722ES: Approx. 887 × 581 × 473 mm (w/h/d) KV-2724ES: Approx. 668 × 665 × 473 mm (w/h/d)
Weight	KV-2720ES: Approx. 47 kg KV-2722ES: Approx. 54.6 kg KV-2724ES: Approx. 52.6 kg
Accessories supplied	Remote Commander RM-630 (1) Only for the KV-2722ES: bolt (4), wrench (1)

Speakers supplied with the KV-2722ES and KV-2724ES


System	2-way speaker system
Units	Woofer: 8.5 cm, cone type Tweeter: 5 cm, cone type
Nominal impedance	8 ohms
Power handling capacity	15 W (max.)

TRINITRON® COLOR TV
SONY®



CTV


SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

NOTE:

The KV-2720ES is not equipped with speakers.
The KV-2722ES is equipped with SS-2722 and KV-2720ES.
The KV-2724ES is equipped with SS-2724 and KV-2720ES.

SICHERHEITSHINWEIS FÜR KOMPONENTEN!!

DIE IN DEN SCHALTBILDERN, DEN IN EINZELTEILE AUFGELÖSTEN PERSPEKTIVISCHEN ZEICHNUNGEN UND DEN TEILELISTEN SCHRAFFIERT EINGEZEICHNETE UND DURCH DAS ZEICHEN  GEKENNZEICHNETE KOMPONENTEN SIND FÜR DIE BETRIEBSSICHERHEIT KRITISCH. DIESE KOMPONENTEN SIND DURCH SOLCHE SONY TEILE ZU ERSETZEN, DEREN TEILENUMMERN IN DIESEM HANDBUCH ODER IN VON SONY HERAUSGEGEBENEN ERGÄNZUNGEN ANGEZEIGT SIND.

AUF FÜR DIE BETRIEBSSICHERHEIT KRITISCHE SCHALTUNGSEINSTELLUNGEN WIRD IN DIESEM HANDBUCH HINGEWIESEN.

BEFOLGEN SIE DIESE ANWEISUNGEN STETS, WENN KRITISCHE KOMPONENTEN AUSGEWECHSELT WERDEN ODER VERDACHT AUF FUNKTIONSFÄHIGKEITEN BESTEHT.

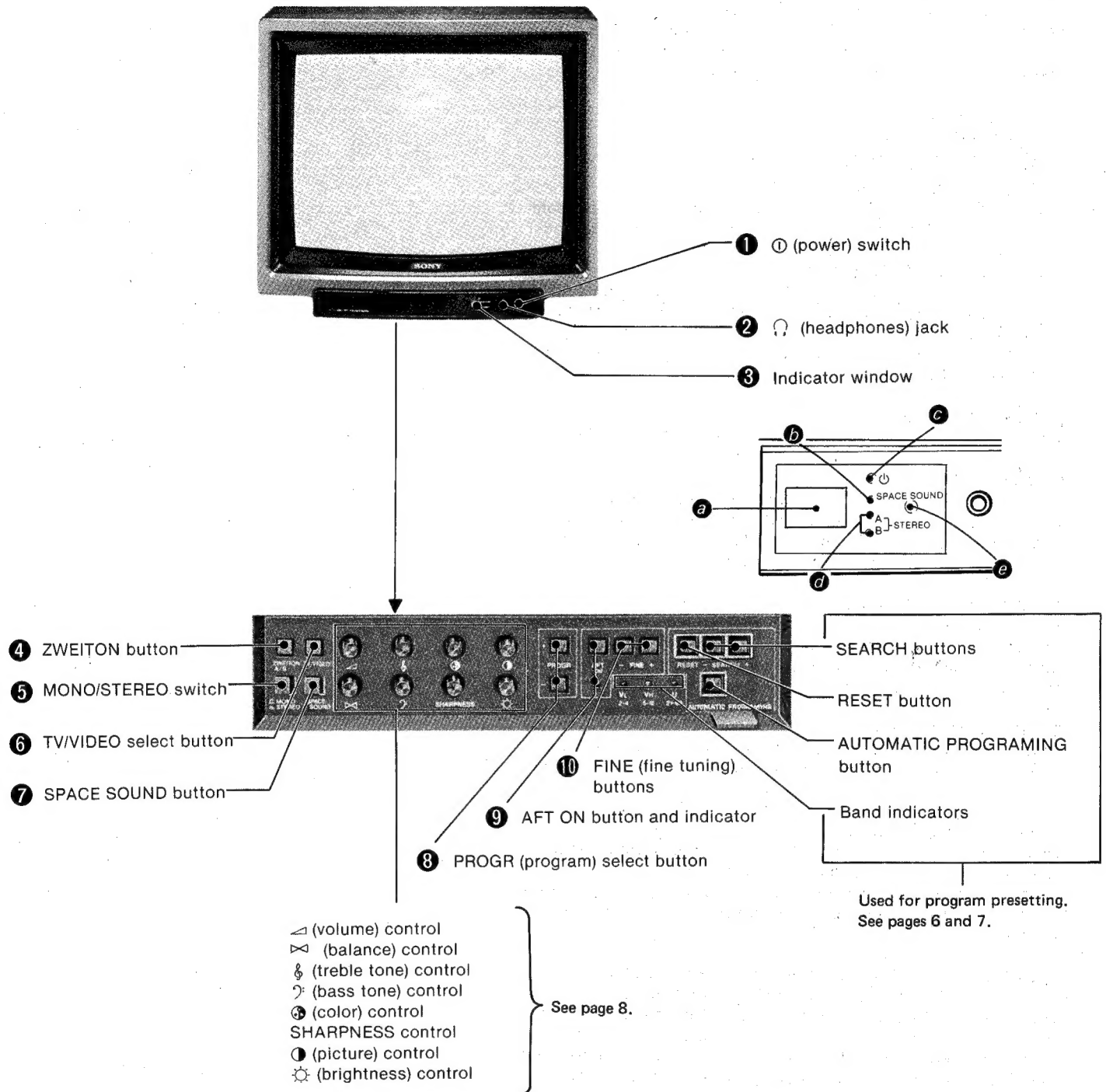
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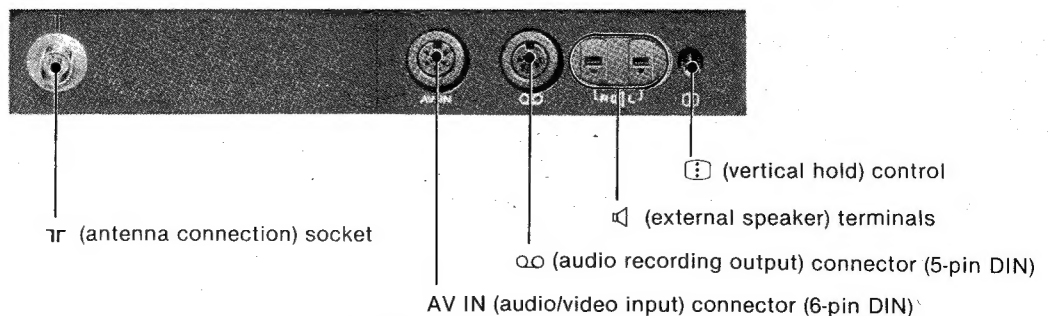
SECTION 1 GENERAL

1-1. LOCATION AND FUNCTION OF CONTROLS

On the front panel



On the rear panel



1 (power) switch

Press to turn the TV on. Press again to turn the power off.

2 (headphones) jack

Connect stereo headphones here. Speaker sound will be disconnected. If your stereo headphones have a stereo miniplug, use an optional plug adaptor. To hear the sound from the speakers, disconnect the headphones.

3 Indicator window

a Program indicator

b SPACE SOUND indicator

c (standby) indicator

Lights up when the TV is turned off with the Remote Commander. When any of the buttons on the Remote Commander is pressed, this lamp blinks.

d Zweiton/STEREO indicators

When a dual-sound program is received, A or B lights up.

When a stereo program is received, both indicators light up.

e Remote control detector

Point the infrared transmitter of the supplied Remote Commander here.

4 ZWEITON button

When a dual-sound program is received, select the language.

5 MONO/STEREO

Normally set this switch to the depressed STEREO position.

Stereo programs can be received. If a stereo program has too much noise, press and release this switch (MONO position). The noise will be reduced, although the stereo feature will be lost.

6 TV/VIDEO select button

When playing back a video tape recorder without a 6-pin DIN connector, press this button so that "VCR" lights in the program indicator. (When playing back a recorder with a 6-pin DIN connector, the video mode is automatically selected.)

7 SPACE SOUND button

Press to get special acoustic effects (for example, more presence). The SPACE SOUND indicator will illuminate. To disengage, press it again.

8 PROGR (program) select buttons

Press either + or - to select a preset program (from positions 1 through 30). Press + for higher numbered programs, and - for lower numbered programs. Programs will be changed continuously in sequence. The selected program number will appear on the program indicator.

9 AFT (automatic fine tuning) ON button and indicator

When the AFT circuit activates, the indicator illuminates.

Press the AFT ON button to restore the AFT on the channel which has been fine-tuned manually with the FINE buttons. After the automatic programming is finished, or after a station is tuned and memorized in the manual programming system, the AFT circuit will automatically reactivate.

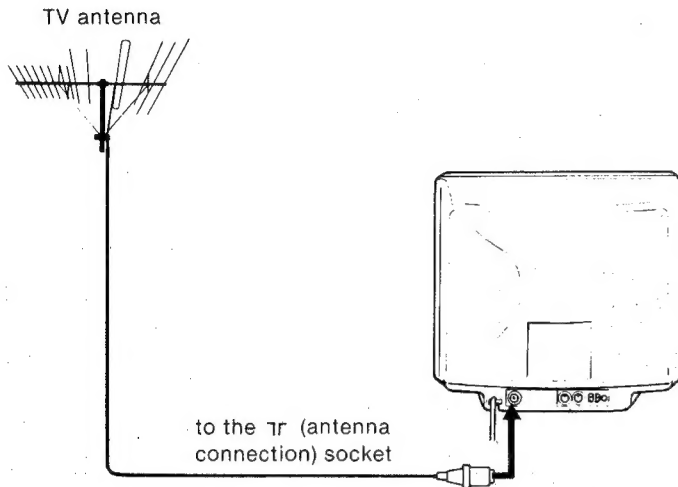
10 FINE (fine tuning) buttons

Keep either + or - depressed to get a clear picture for each unsatisfactory channel. The AFT circuit will be automatically deactivated.

1-2. CONNECTIONS

ANTENNA CONNECTION

Good picture and sound are obtained when a proper antenna is used. Your TV receiver is equipped with a standard antenna connection socket, which is effective for both VHF and UHF reception. Use a coaxial antenna connection cable equipped with a single plug, and insert the plug into the Γ (antenna connection) socket of your TV.

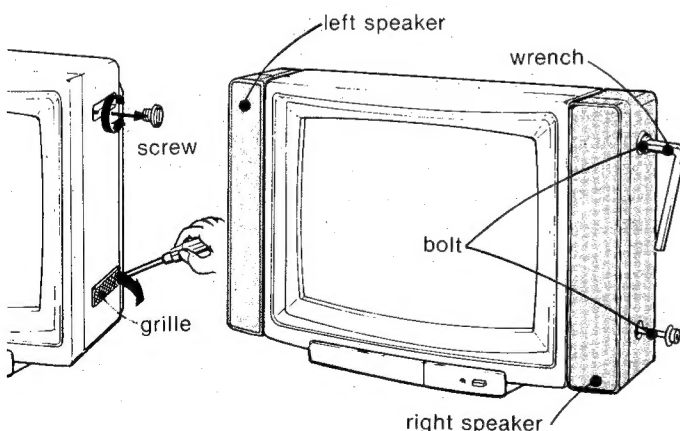


When a video tape recorder is to be connected to the Γ socket of the TV, connect an antenna to the recorder, as explained on page 11.

KV-2722ES

Remove the screws and grilles on both sides of the TV using a screwdriver or similar and attach the supplied left and right speakers by tightening the supplied bolts with the supplied hexagonal wrench.

- The left and right speakers can be distinguished by the label at the rear of each speaker.



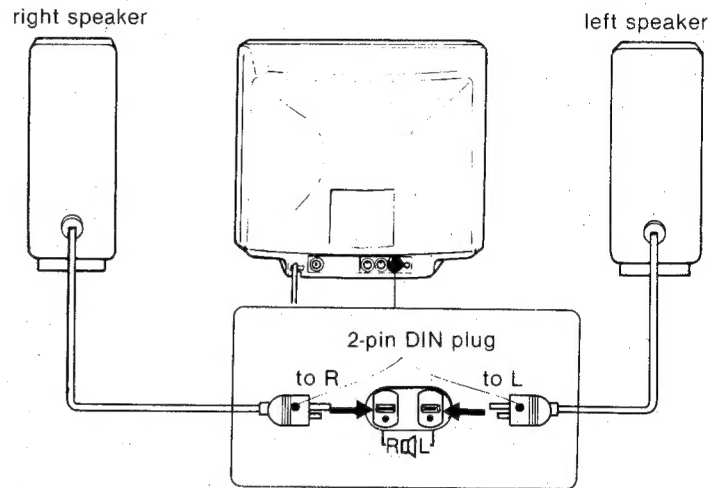
You can connect an external speaker system in the same way as the above example of KV-2720ES. If you connect an external speaker system, the attached speaker system is disconnected.

SPEAKER CONNECTION

KV-2720ES

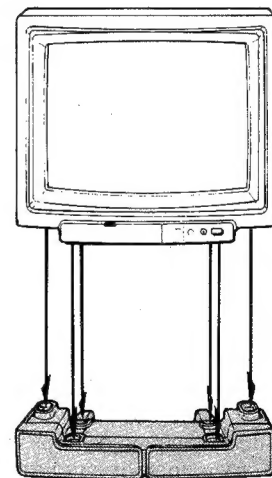
The KV-2720ES is not equipped with speakers. Attach an optional SS-2722 (the same as the speakers supplied with the KV-2722ES) or SS-2724 (the same as the speakers supplied with the KV-2724ES) speaker system, or connect external 8-ohm speakers to the \square terminals at the rear.

ex. External speaker connection



KV-2724ES

Place the TV on the supplied speaker system.



You can connect an external speaker system in the same way as the one for KV-2720ES. The attached speaker system will then be disconnected.

POWER CONNECTION

This TV operates only on 220–240 V ac. Plug the ac power cord into a 220–240 V ac wall outlet.

1-3. PROGRAM PRESETTING

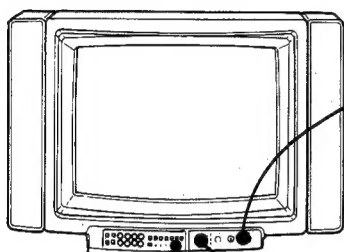
This TV has 30 program positions. Once you preset the channels broadcast in your area, program selection is simply made by pressing the PROGR buttons on the TV or the hand-held Remote Commander.

Preset programs by following one of these procedures; automatic programming or manual programming.

AUTOMATIC PROGRAMING

With the automatic programming system, receivable VHF and UHF channels in your area can be preset automatically in numerical sequence; from the lowest frequency VHF channel through the highest UHF channel.

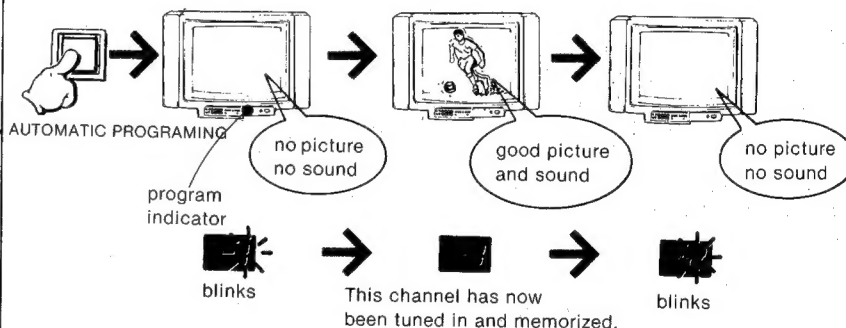
If a channel you wish to preset is not strong enough to be preset with the automatic programming system, use the manual programming. See page 27.



- 1 Depress ① to turn on the TV.**
This TV always turns on to program 1.

- 2 Check that the TV is in the TV mode.**
If **TV** lights in the program indicator, press the TV/VIDEO select button.

- 3 Press AUTOMATIC PROGRAMING.**
Automatic programming will begin.
The first channel found will be memorized on program position 1, the second on position 2, and so on.



This tuning-memorizing sequence will be repeated for each channel in your area. When no more channels can be found, automatic programming will stop, and the program preset on the first program position will appear on the TV screen. The number "1" will light (not blink) on the program indicator.

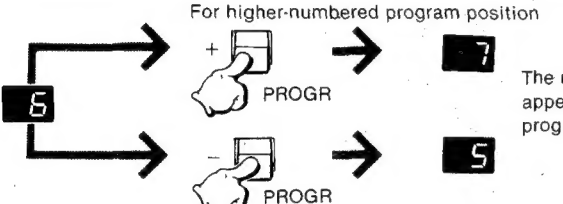
After presetting has been completed, press the PROGR buttons to check the results of the automatic programming, referring to your local TV listings.

MANUAL PROGRAMING

With the manual program search system, the channels you want can be preset in a desired sequence. Any channel can be set to any program position. Consult your local TV listings to find out the active channels in your area. Make a list of your desired VHF and UHF channels and arrange them in a desired sequence.

- 1 Depress ① to turn on the TV.**
This TV always turns on to program 1.

- 2 Check that the TV is in the TV mode.**
If **TV** lights in the program indicator, press the TV/VIDEO select button.

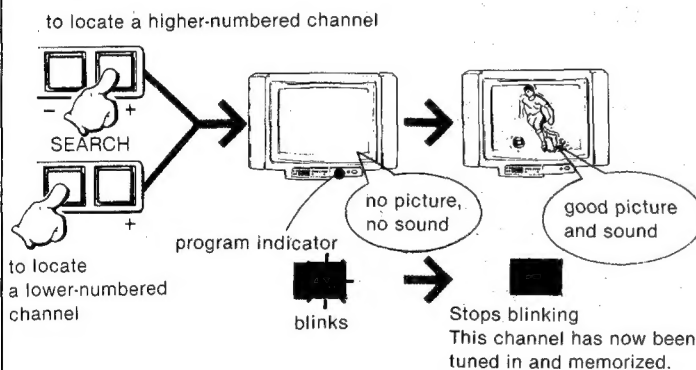
- 3 Press the + or - PROGR button to select the number of the program position to which the channel is to be preset.**


For higher-numbered program position

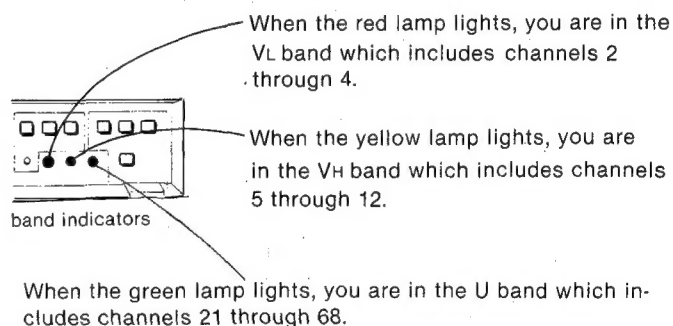
For lower-numbered program position

The number selected appears in the program indicator.

- 4 Press the + or - SEARCH button, as required until the desired station is received. Do not hold the button in, just press it briefly.**



Refer to the band indicators as guides for the search operation.



● In strong signal areas, tuning may sometimes stop between channels. If this happens, just press the SEARCH button again.

- 5 Repeat steps 3 and 4 for all the desired channels.**

RESET button

If this button is pressed, the memory on the selected program position will be erased and the unit will be automatically tuned to a frequency below channel 2.

To tune in the desired station in step 4 above, you may alternatively use the RESET button.

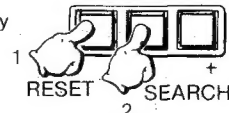
For lowest-frequency VHF channel



The available lowest-frequency VHF channel will be tuned in.

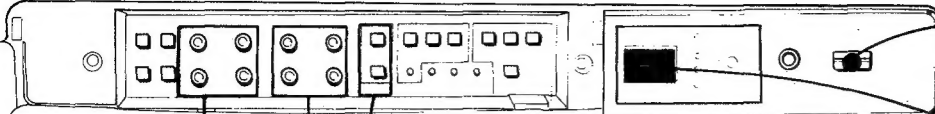
Press the RESET button first, then the SEARCH button.

For highest-frequency UHF channel

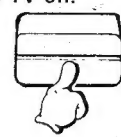


The available highest-frequency UHF channel will be tuned in.

1-4. BASIC OPERATION ON THE PANEL OPERATING STEPS AND INITIAL ADJUSTMENTS





1 Depress ① to turn the TV on.







The program number " ; " appears in the program indicator.

2 Select the desired TV program.





For higher-numbered programs  PROGR



For lower-numbered programs 

3 Adjust the picture condition.

for less color		for more color
for less sharpness		for more sharpness
SHARPNESS		
for less brightness		for more brightness
to decrease the picture contrast		to increase the picture contrast

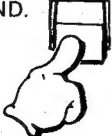
4 Adjust the sound condition.

to decrease the volume		to increase the volume
to emphasize the left speaker sound		to emphasize the right speaker sound
for less treble		for more treble
for less bass		for more bass

When you use an external Hi-Fi speaker system, you will find the bass tone too emphasized with the  control at the center detent position. This is because this TV has a built-in low boost circuit. In this case, turn the  control counterclockwise.

To get special acoustic effects

Press SPACE SOUND.

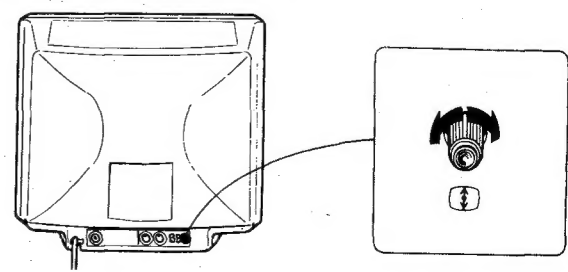


SPACE SOUND

Press again to disengage it.

This switch is especially effective when listening to music or a sports program. For instance, when you are listening to a piano concerto, the piano will be clearly heard from the center, and the orchestra, reverberation and applause will be heard as "surround" sound.

If picture rolls vertically
Adjust the  control at the rear.



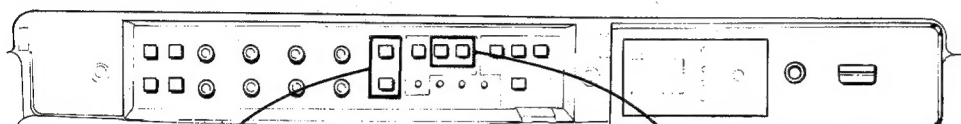
FINE TUNING

The automatic fine tuning (AFT circuit) locks in the preset signals for best possible pictures and eliminates the necessity for frequent readjustments of the tuning.

The circuit has no effect during channel search. When the automatic programming is finished or when a station is tuned and memorized in manual search system, the circuit will automatically activate and the AFT indicator will light up.

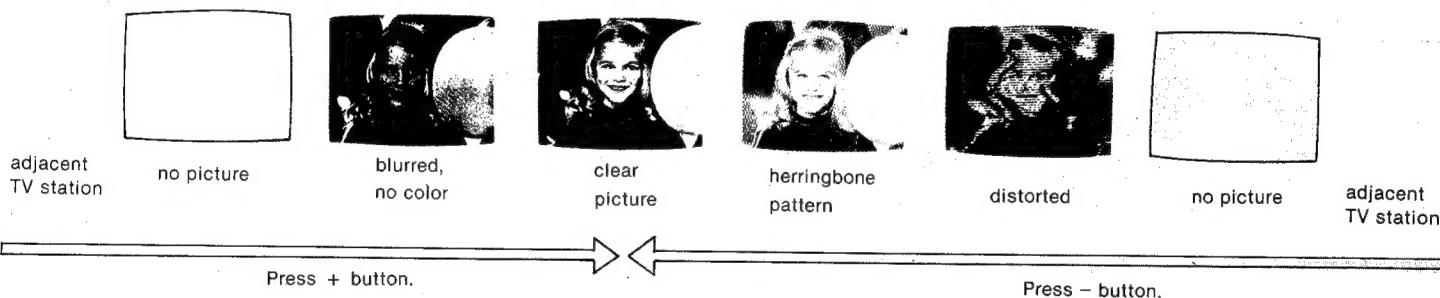
To fine-tune a channel manually

In case of extrem interference or of extremely weak stations, press the FINE buttons to fine-tune each unsatisfactory channel manually.



1 Select the channel to be fine-tuned with the PROGR buttons.

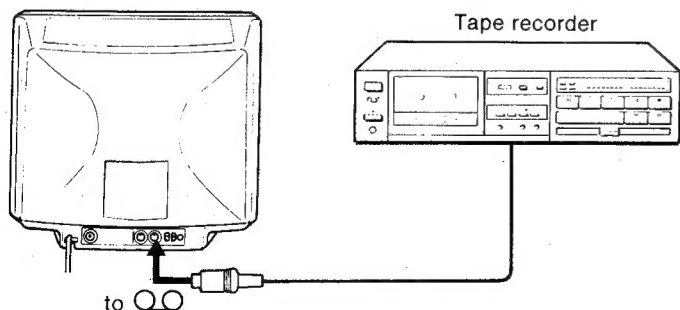
2 Keep the + or - FINE button pressed until a clear picture is obtained. (When either of the FINE buttons is pressed, the AFT on the selected channel is deactivated and the AFT indicator turns off.) After the adjustment is completed, keep the AFT on the channel deactivated.



TO RECORD THE TV SOUND

Connect a tape recorder to the connector (5-pin DIN) at the rear using a suitable connecting cord.

The , , and control settings on the TV or on the Remote Commander have no effect on the recording.



• The signal from the antenna socket will be recorded. The playback of the video tape recorder connected to the AV IN connector will not be recorded.


1-5. TO ENJOY STEREO AND DUAL-SOUND PROGRAMS

When a stereo program is received, STEREO indicators light up.

Keep the MONO/STEREO switch in the depressed STEREO position.

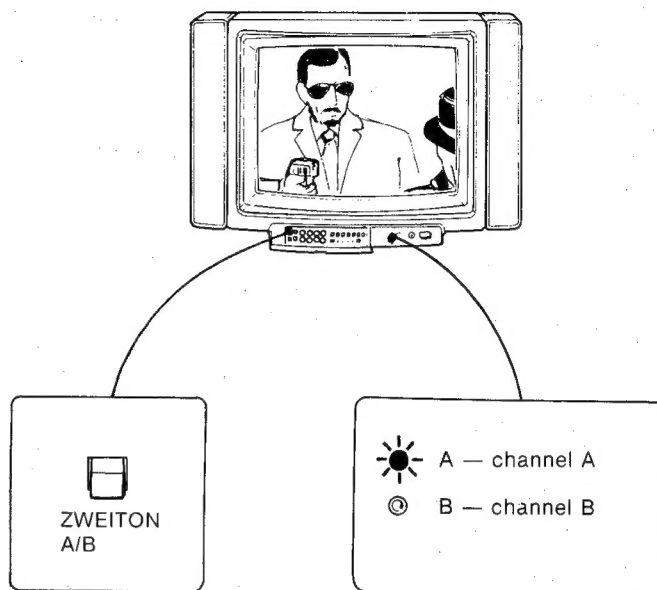
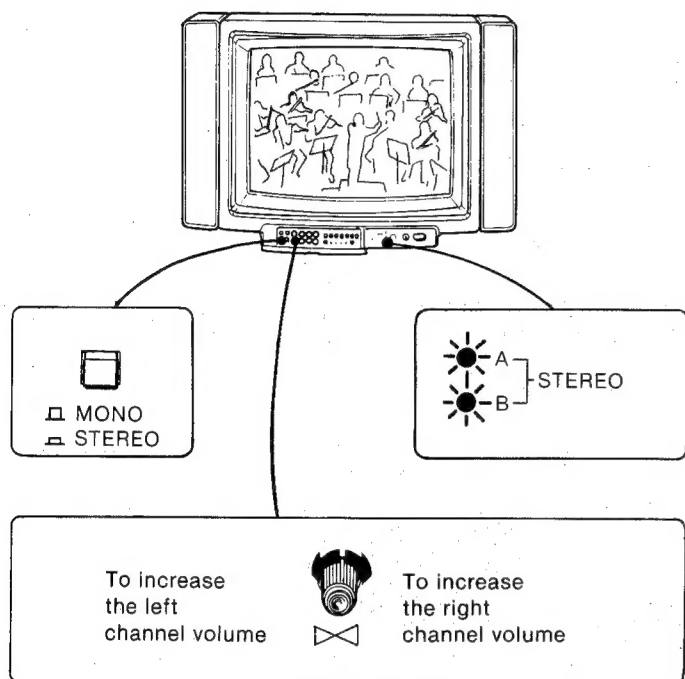
The TV automatically operates in the stereo mode when a stereo program is received.

If a stereo program has too much noise, press and release the switch to the MONO position. The STEREO indicators will turn off. The stereo program will be received in monaural, but the noise will be reduced.

If necessary, adjust the stereo balance with the  control to obtain the optimum stereo effect.

When a dual-sound (bilingual) program is received, either A or B indicator lights up.

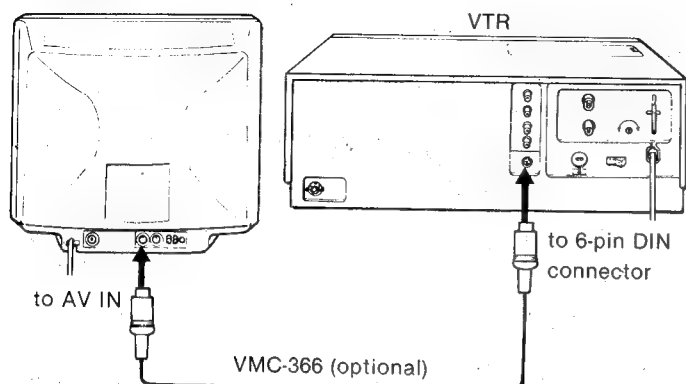
Select the local language (usually broadcast on channel A) or the original language (usually broadcast on channel B) by pressing the ZWEITON button on the TV or the A/B button on the Remote Commander.



1-6. TO ENJOY VIDEO TAPE PLAYBACK USING THE AV IN CONNECTOR (6-PIN DIN)

With a recorder equipped with a 6-pin DIN connector

Connection



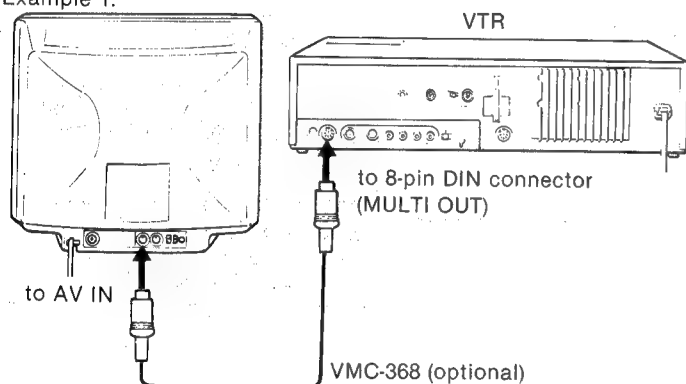
Operation

Turn on the TV and the recorder. When the recorder is set into the playback mode, the TV will be set into the video mode automatically and the playback picture will appear on the TV screen.

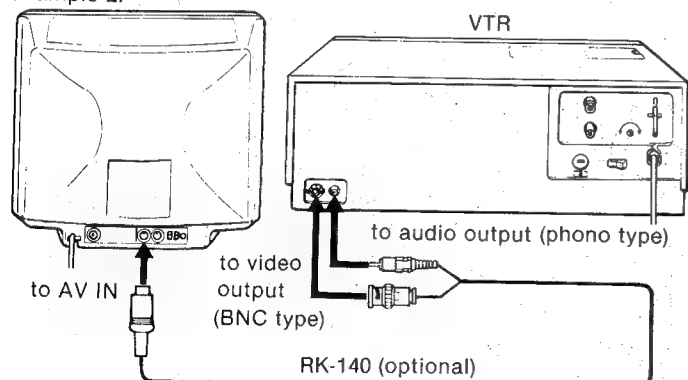
With a recorder without a 6-pin DIN connector

Connection

Example 1:



Example 2:



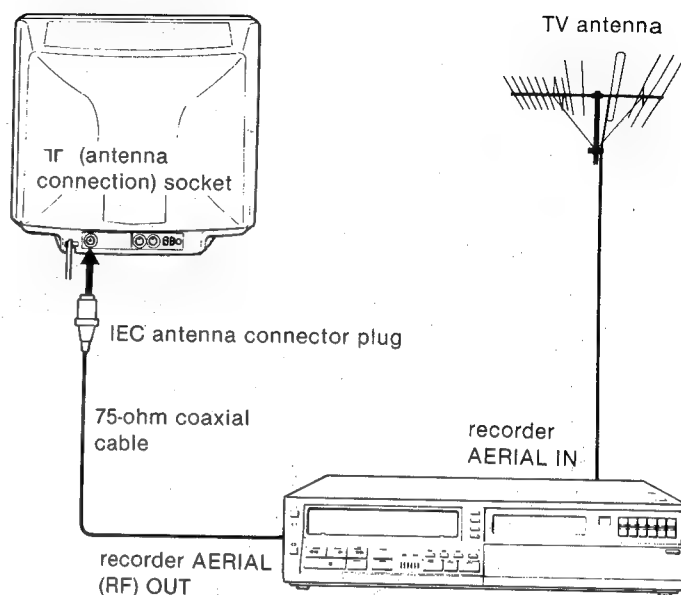
Operation

Turn on the TV and the recorder. Press the TV/VIDEO select button on the TV or the VIDEO button on the Remote Commander so that **TV** lights in the program indicator. The TV is then set into the video mode. Play the tape back.

USING THE ANTENNA CONNECTION SOCKET

With a recorder equipped with an RF modulator

Connection



Operation

Preset one of the program positions of the TV to the output signal of the recorder as follows.

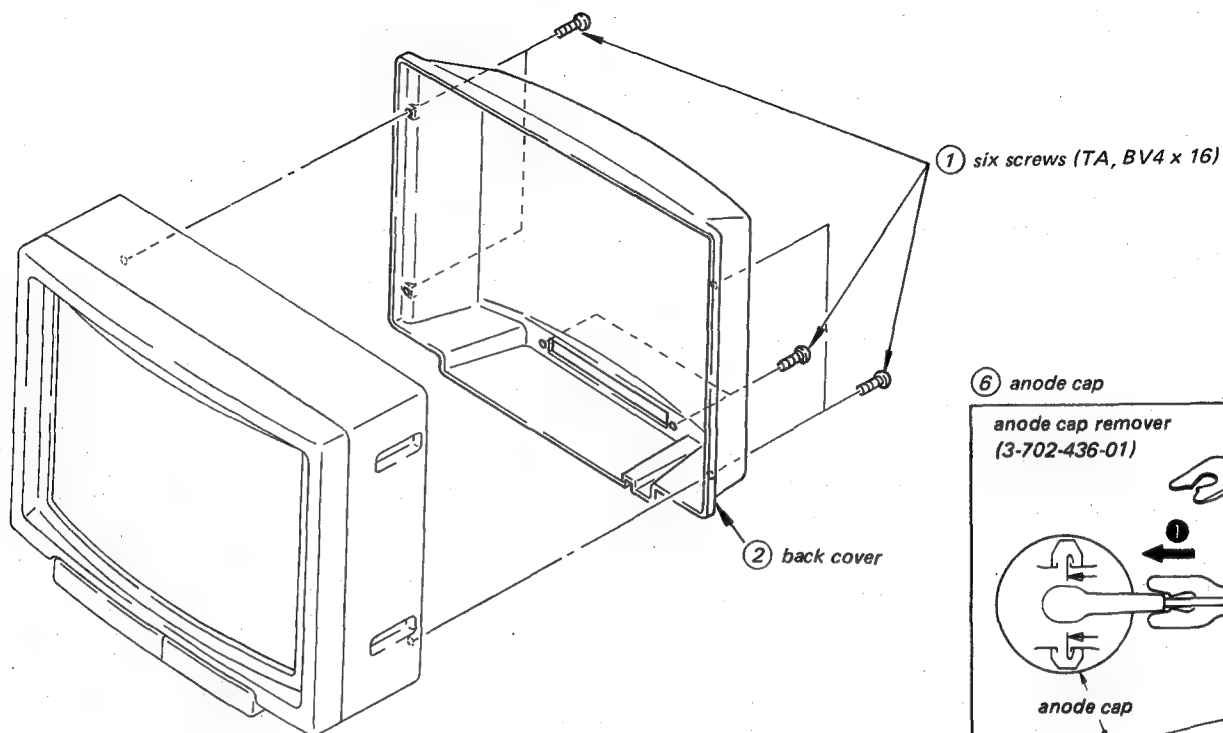
- ① Turn on the TV and recorder.
- ② Be sure that the TV is in the TV mode.
- ③ Set the TEST SIGNAL switch to ON if equipped with your recorder, or apply the output signal of the recorder to the TV by putting the recorder into the playback mode.
- ④ Select the program position to be set for the recorder with PROGRAM buttons.
- ⑤ Push either of the SEARCH buttons. When the recorder output signal is found and memorized, the playback picture of the recorder will appear on the screen.

For operation of the recorder, refer to the instruction manual of the recorder.

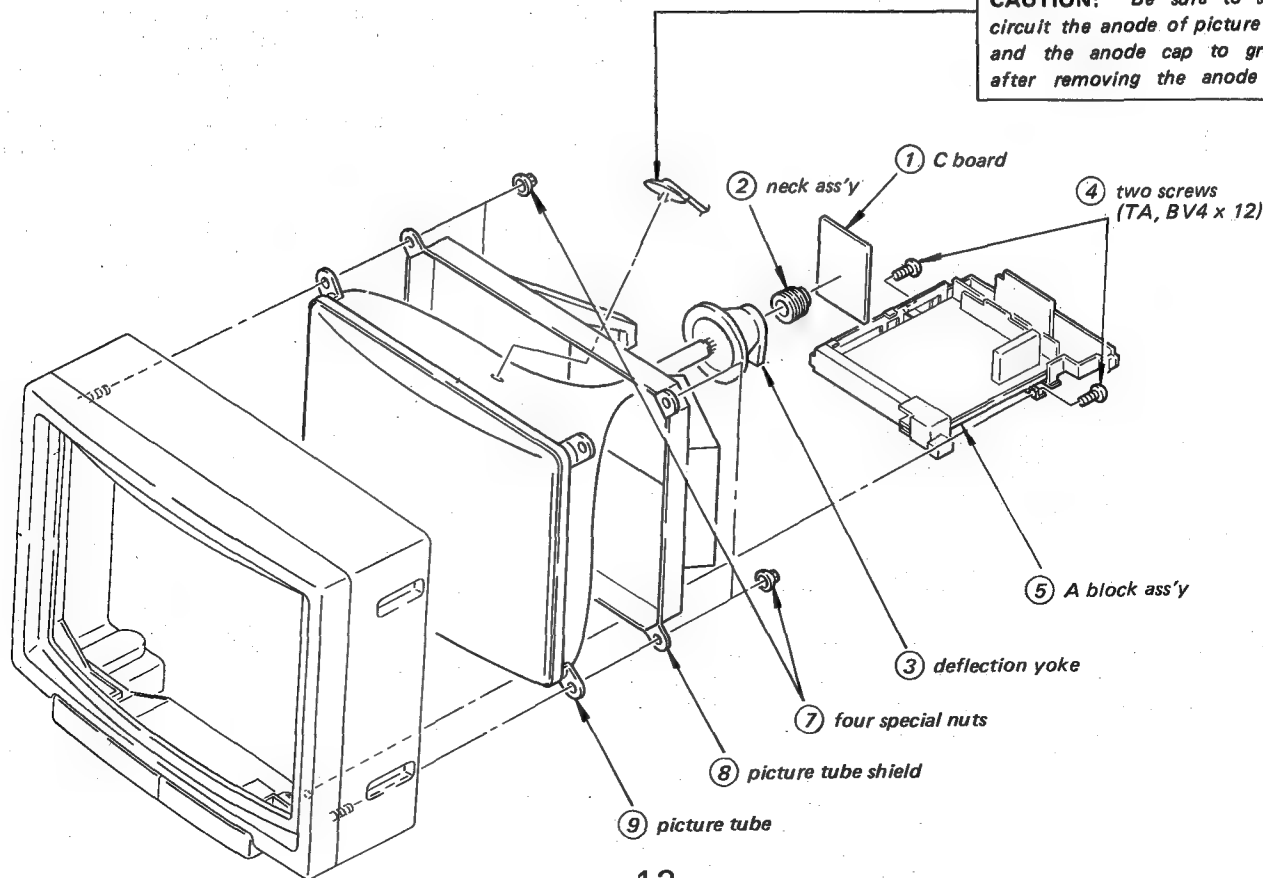
SECTION 2 DISASSEMBLY (AND REPLACEMENT)

Note: Follow the disassembly procedure in the numerical order given.

2-1. BACK COVER REMOVAL

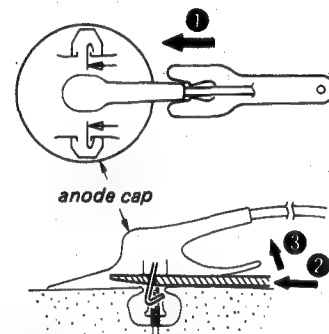


2-2. PICTURE TUBE REMOVAL



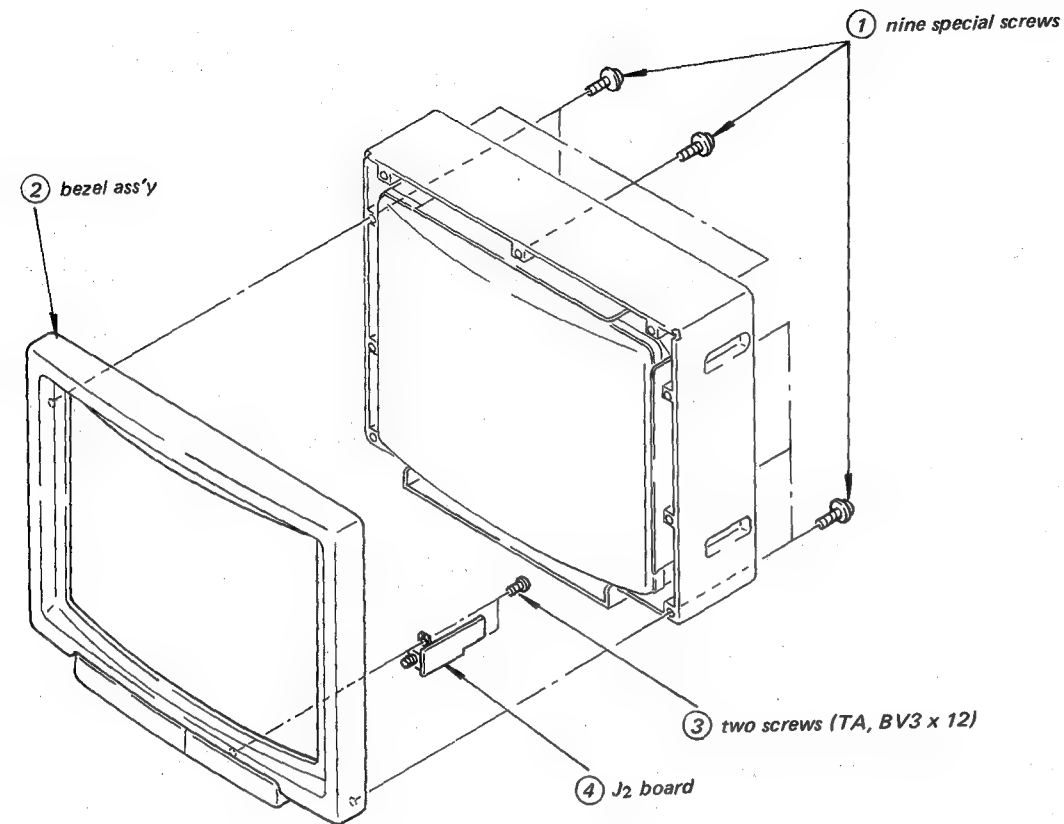
⑥ anode cap

anode cap remover
(3-702-436-01)

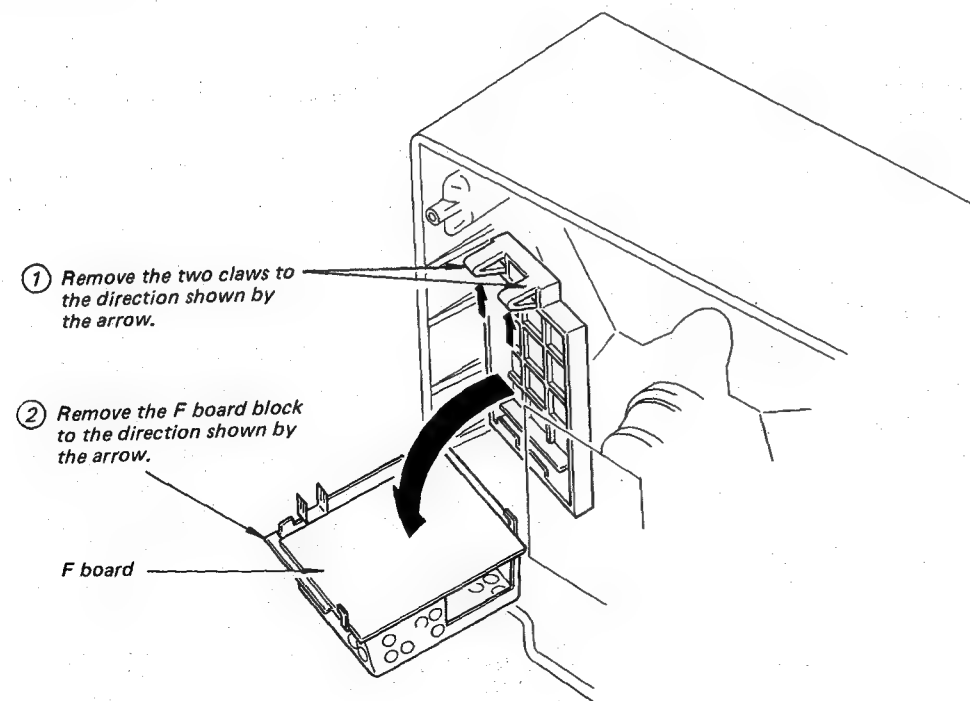


CAUTION: Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.

2-3. BEZEL ASS'Y AND J₂ BOARD REMOVAL



2-4. F BOARD REMOVAL



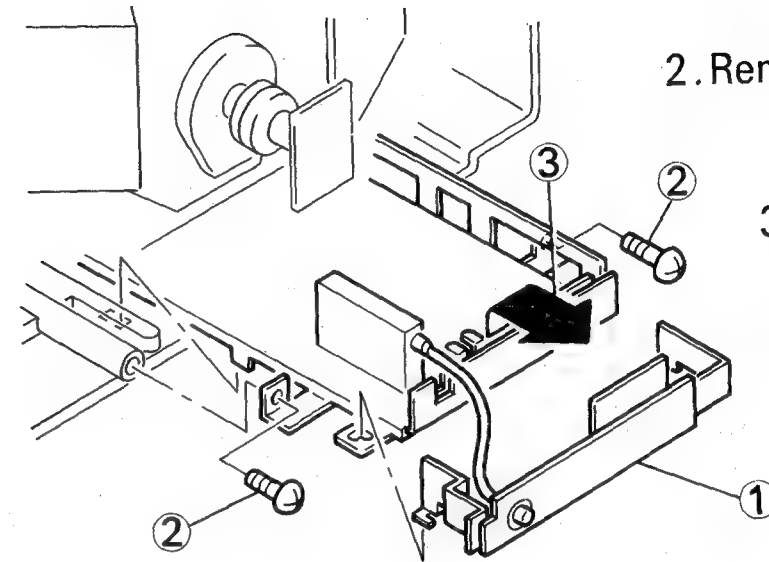
2-5.

A BOARD REMOVAL

1. Remove the connector panel assembly.

2. Remove the two screws.

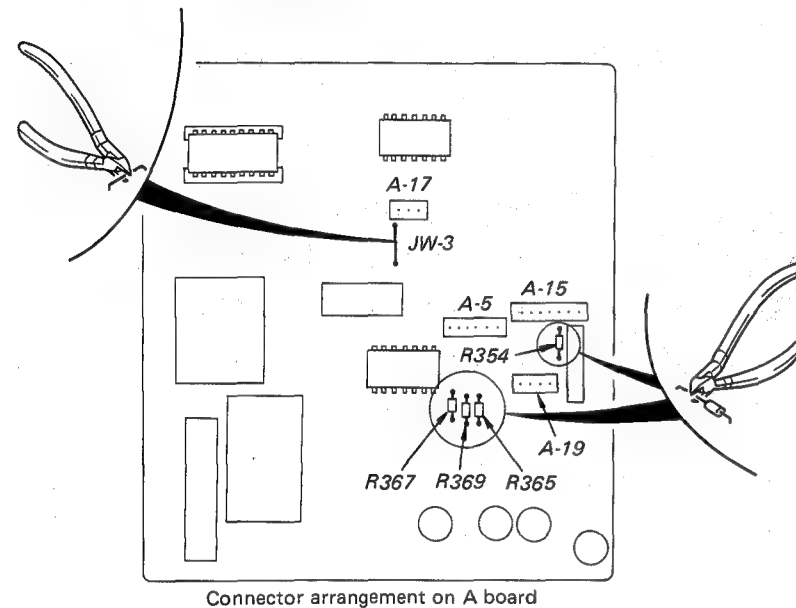
3. Draw the A board with lifting the end up as shown by the arrow.



OPK-102 BOARD ATTACHING

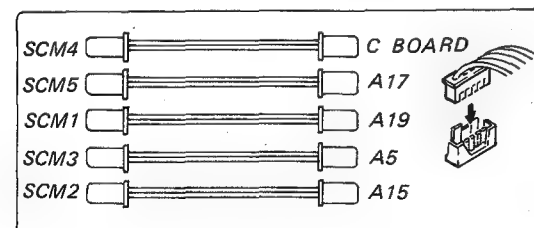
1. A BOARD REMODELING

- Cut off R354, R365, R367 and R369 using a nipper as shown in the figure.
- Cut off the jumper wire (JW-3) using a nipper as shown in the figure.



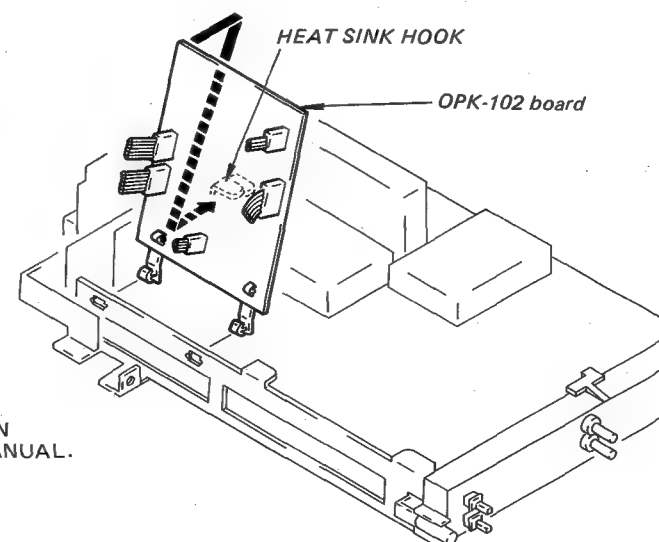
2. CONNECTOR CONNECTING

- Connect the other end of the harness connected to the OPK-102 board to each connector on the A and C boards, respectively, as shown in the figure below. (Refer to the connector arrangement on the A, C and OPK-102 boards.)



3. OPK-102 BOARD MOUNTING

- Fix the OPK-102 board as shown in the figure.

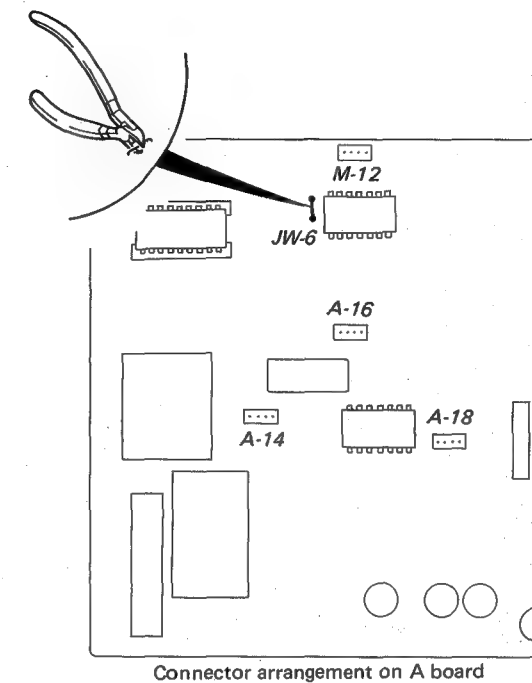


NOTE:
Refer to INSTALLATION
AND ADJUSTMENT MANUAL.

OPK-103 BOARD ATTACHING

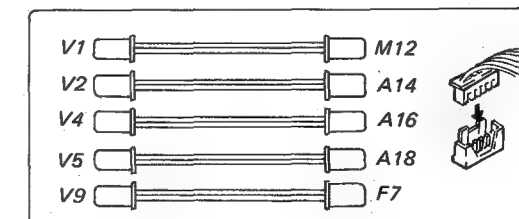
1. A BOARD REMODELING

- Cut off the jumper wire (JW-6) using a nipper as shown in the figure.



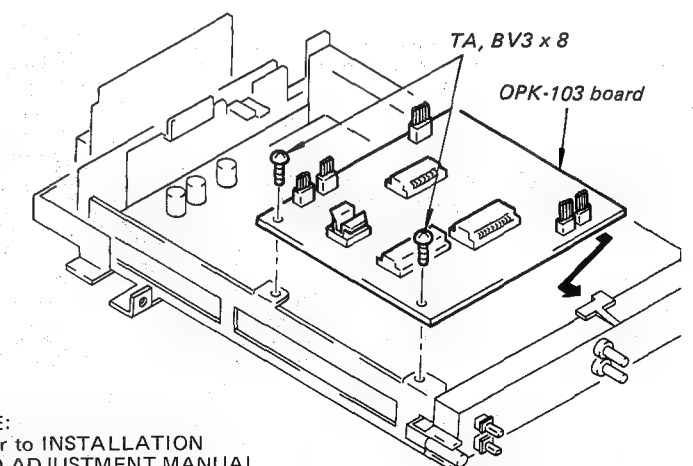
2. CONNECTOR CONNECTING

- Connect the other end of the harness connected to the OPK-103 board to each connector on the A and F boards, respectively, as shown in the figure below. (Refer to the connector arrangement on the A, F and OPK-103 boards.)



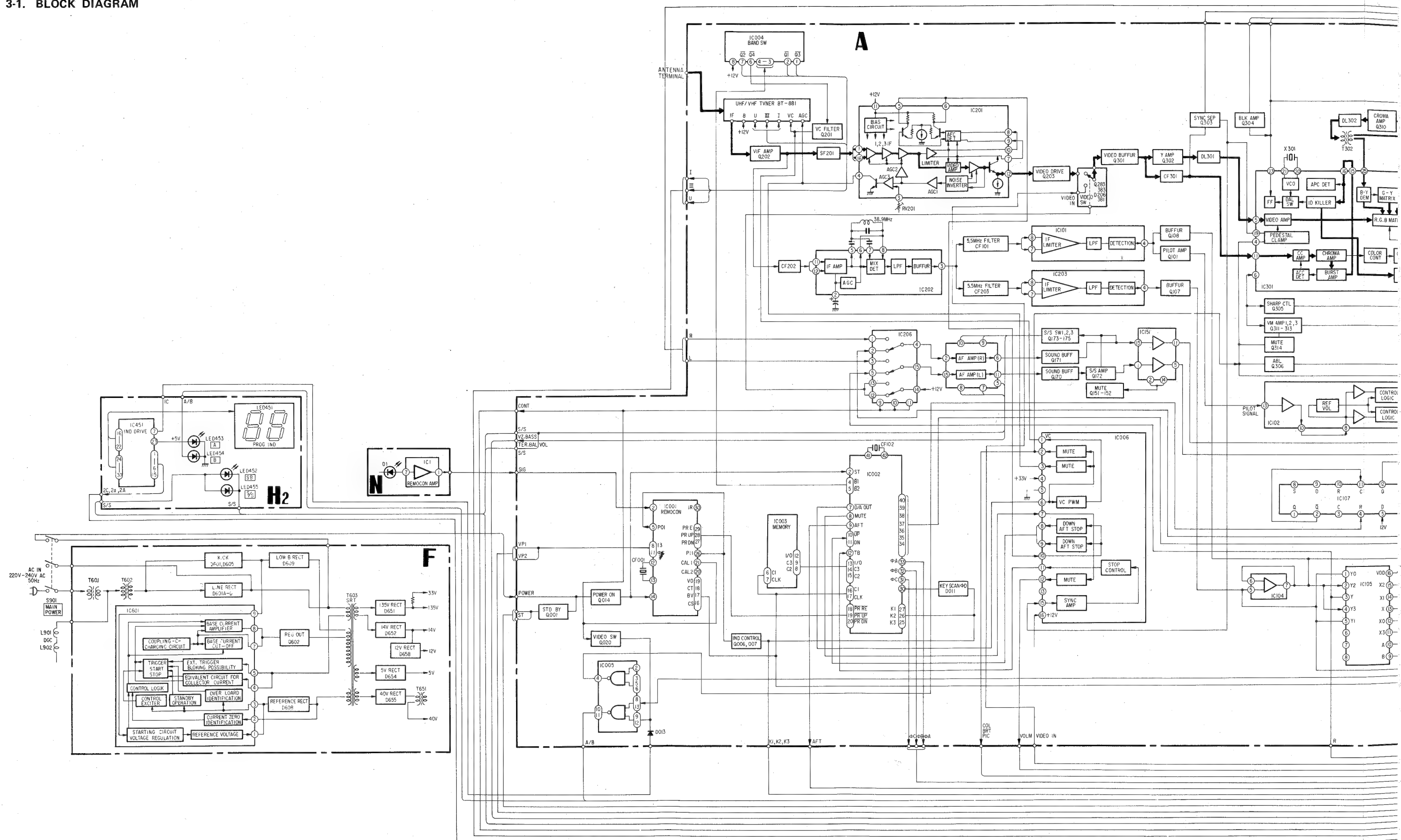
3. OPK-103 BOARD MOUNTING

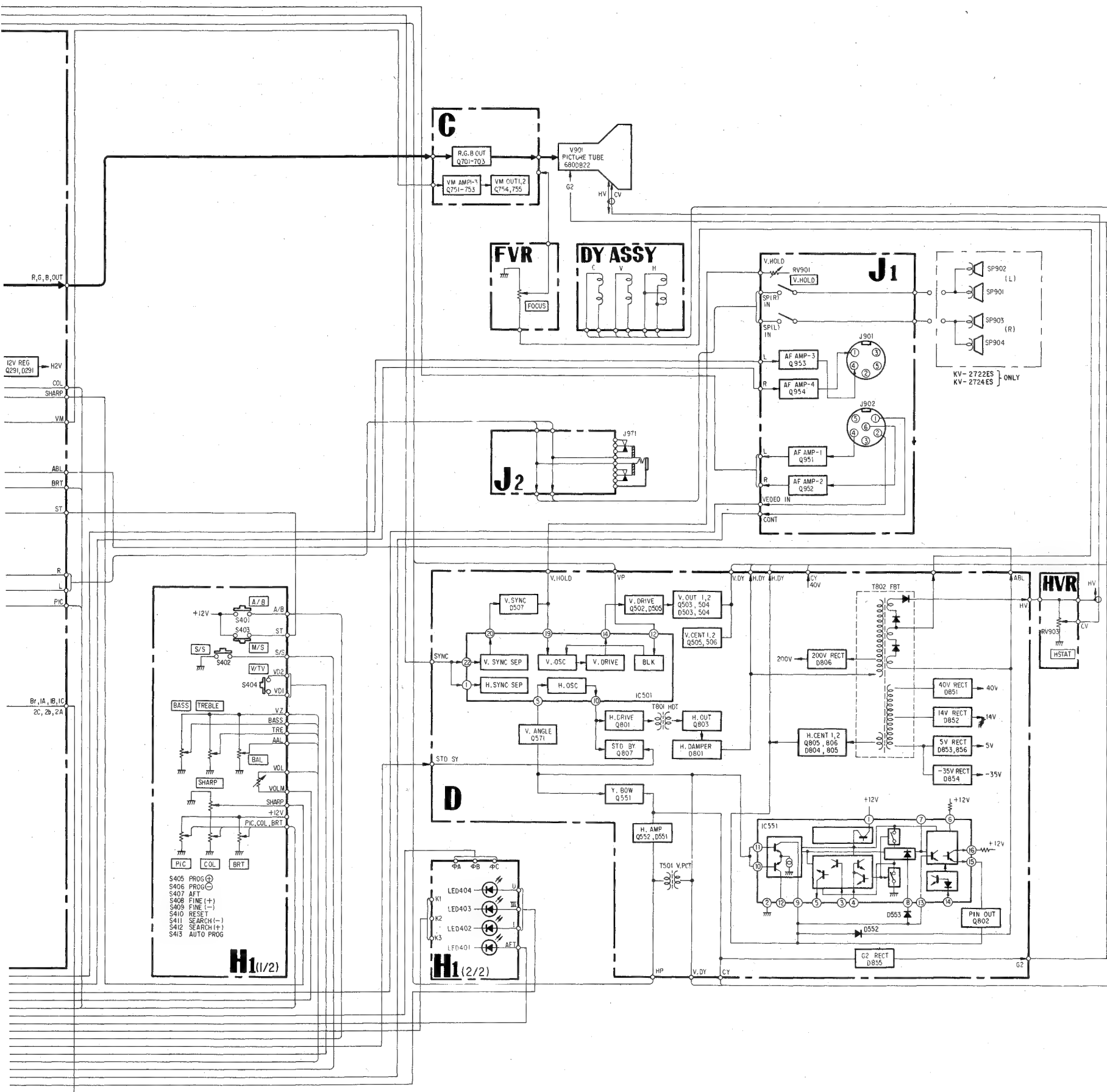
- Fix the OPK-103 board as shown in the figure.



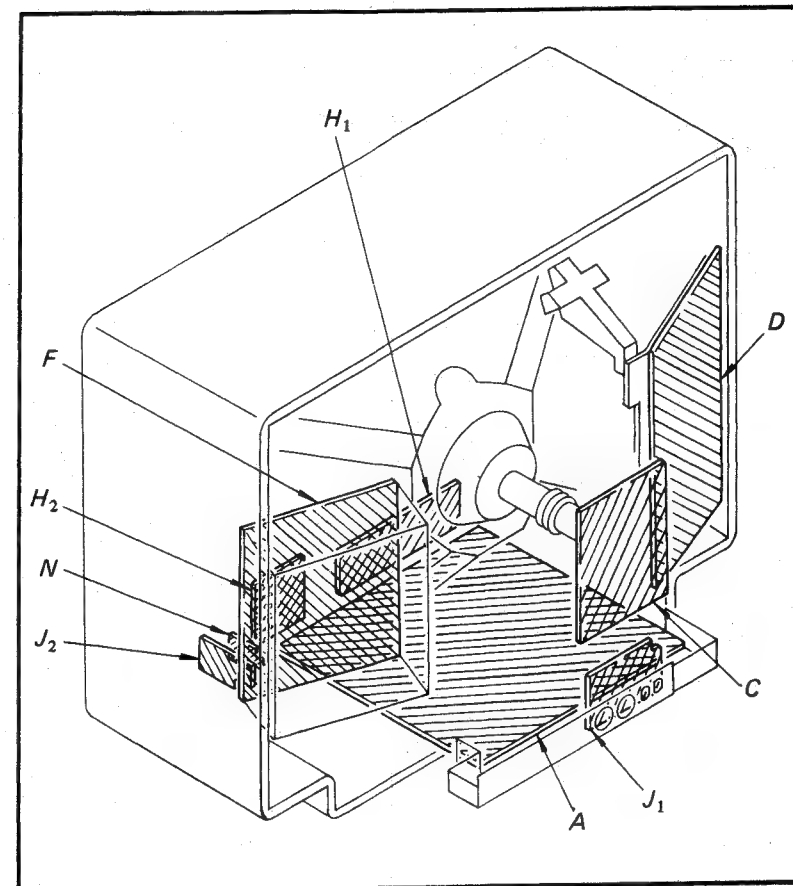
NOTE:
Refer to INSTALLATION
AND ADJUSTMENT MANUAL.

3-1. BLOCK DIAGRAM

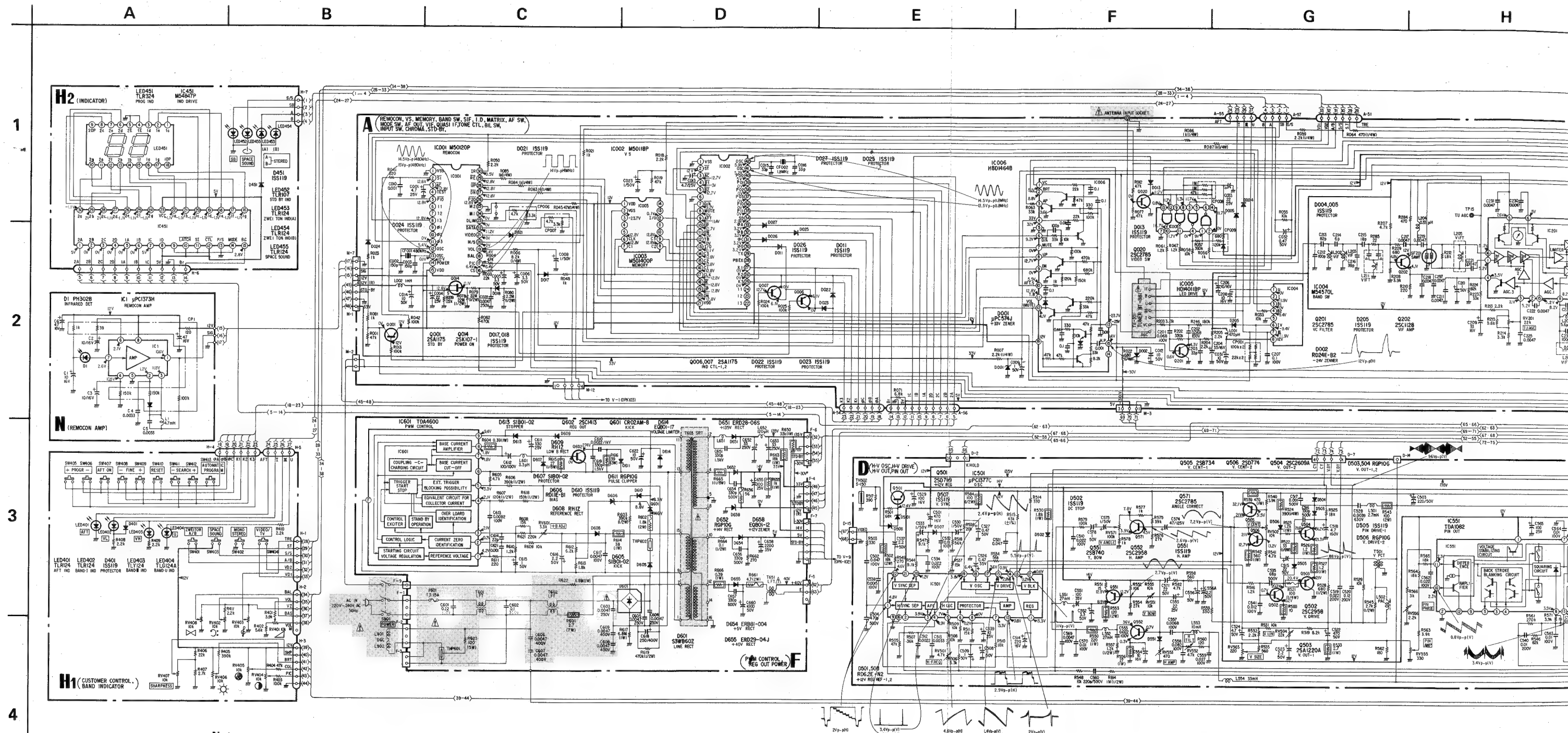




3-2. CIRCUIT BOARDS LOCATION



3-3. SCHEMATIC DIAGRAM



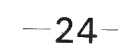
Note:

- All capacitors are in μF unless otherwise noted. $\text{pF}:\mu\text{F}$ 50 WV or less are not indicated except for electrolytics.
- C board and D board resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted, and other boards are in ohms, $\frac{1}{8}$ W unless otherwise noted. k: 1000 Ω ; M: 1000 k Ω
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation.
- : adjustment for repair.
- All voltage are in V.
- : B+ bus.
- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.

- Readings are taken with a 10 M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltages on A and H₁ boards are taken under conditions below.
 - The channel 1 is selected.
 - VOLUME control is set to no sound position.
 - PICTURE control is set to the first stage.
 (The first stage is the condition when the POWER switch sets to ON.)
- Waveform on A board is taken with controls set to the first stage.
- Voltage variations may be noted due to normal production tolerances.
- Voltage on F board is taken with Q602 Emitter.

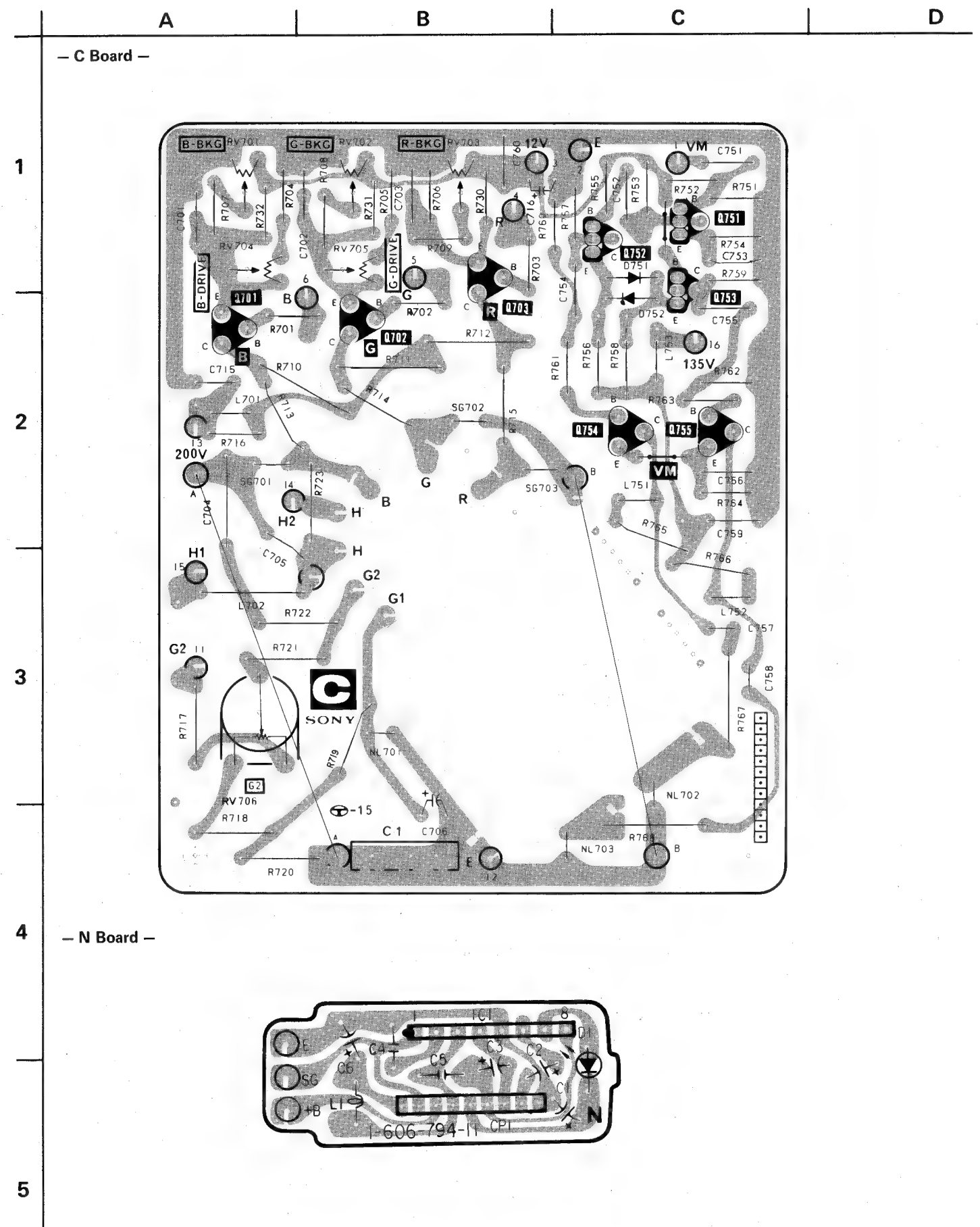
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Replace only with

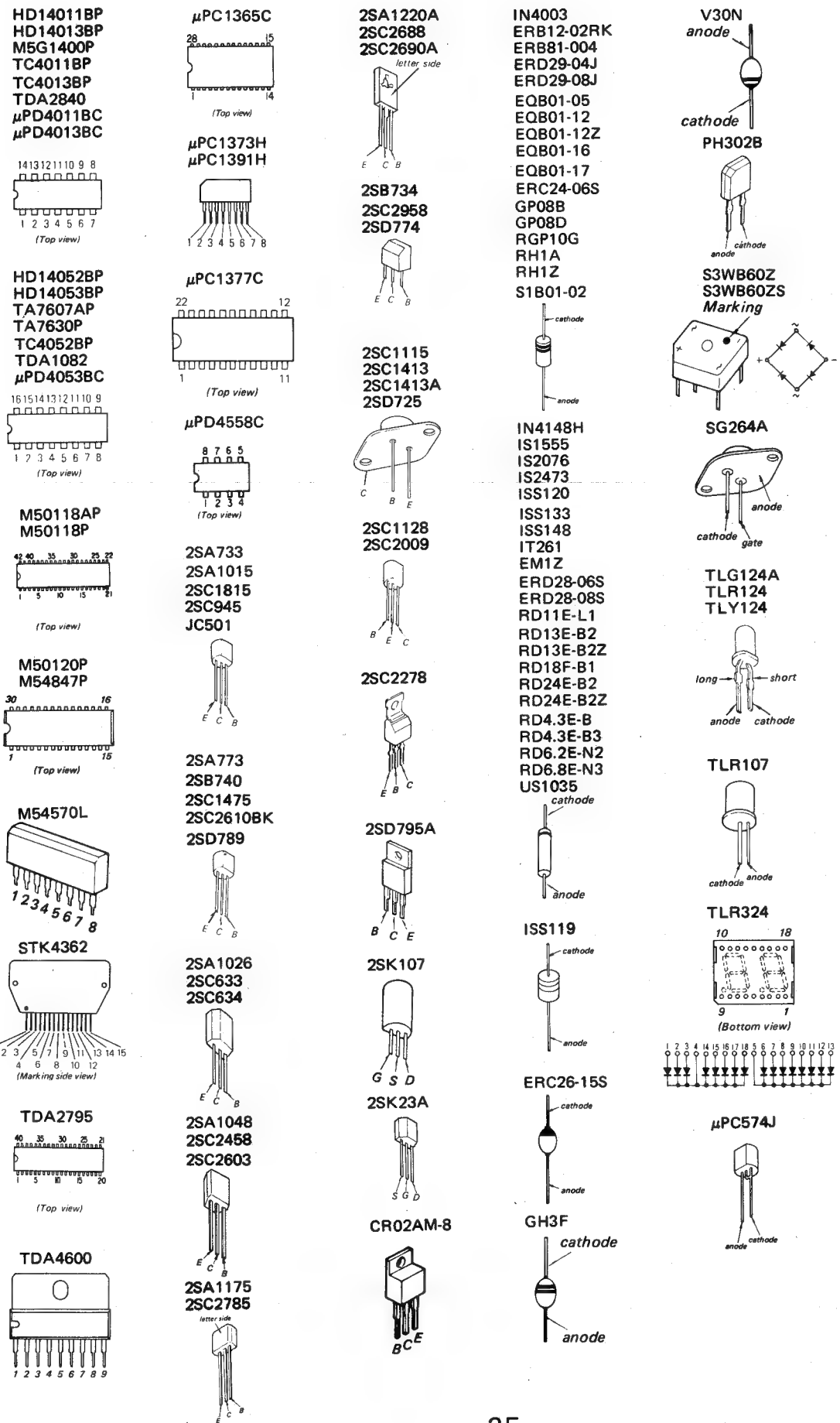


3-5. PRINTED WIRING BOARDS

— Conductor Side —



3-4. SEMICONDUCTORS



A

A

REMOCON, VS, MEMORY, BAND SW, SIF, I.D, MATRIX, AF SW,
MODE SW, AF OUT, VIF, QUASI IF, TONE CTL, BIL SW,
INPUT SW, CHROMA, STD-BY,

A

B

C

D

E

F

G

- A Board -

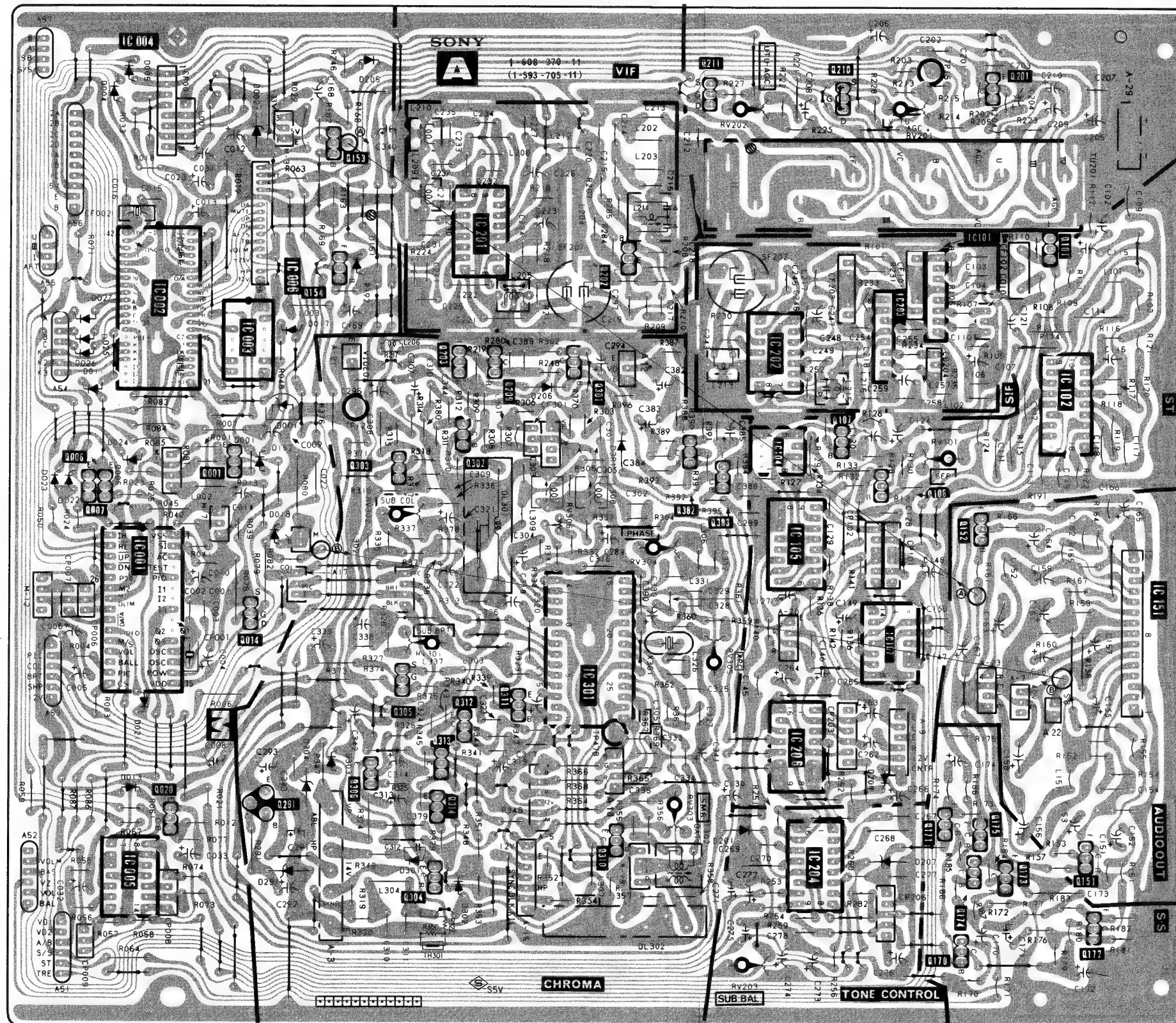
1

2

3

4

5



Q, IC	D	ADJ, TP
IC004	205 005 201 004 002	TP15 RV201
IC006		
IC201	101	
IC002	151	
IC003	IC203 027 017 025 026	
IC102	024 011 206 001	TP12
IC105	302 107 IC104 382 303 383 108 006 007	RV101
IC105	152 018	RV302 RV306 RV304
IC151		
IC107		RV301
IC301		RV305
IC206	021	TP47B
IC208	303 013 304 208	
IC204	151 171 175 174 173	RV303
IC005	304 172 170	RV203
Q, IC	D	ADJ, TP

D

D

[H·V OSC, H·V DRIVE]
H·V OUT, PIN OUT

A

B

C

D

E

F

G

— D Board —

Q	IC	551	552	IC551	802	504	503	502	803	571	IC501	801	806	805	501	807	Q
D	IC	505,506							802		552,854,856,853		851			804,805	D
ADJ		RV557, RV556, RV555 RV552, RV553, RV551 RV502			RV504			RV503	RV571				RV801 RV501				ADJ

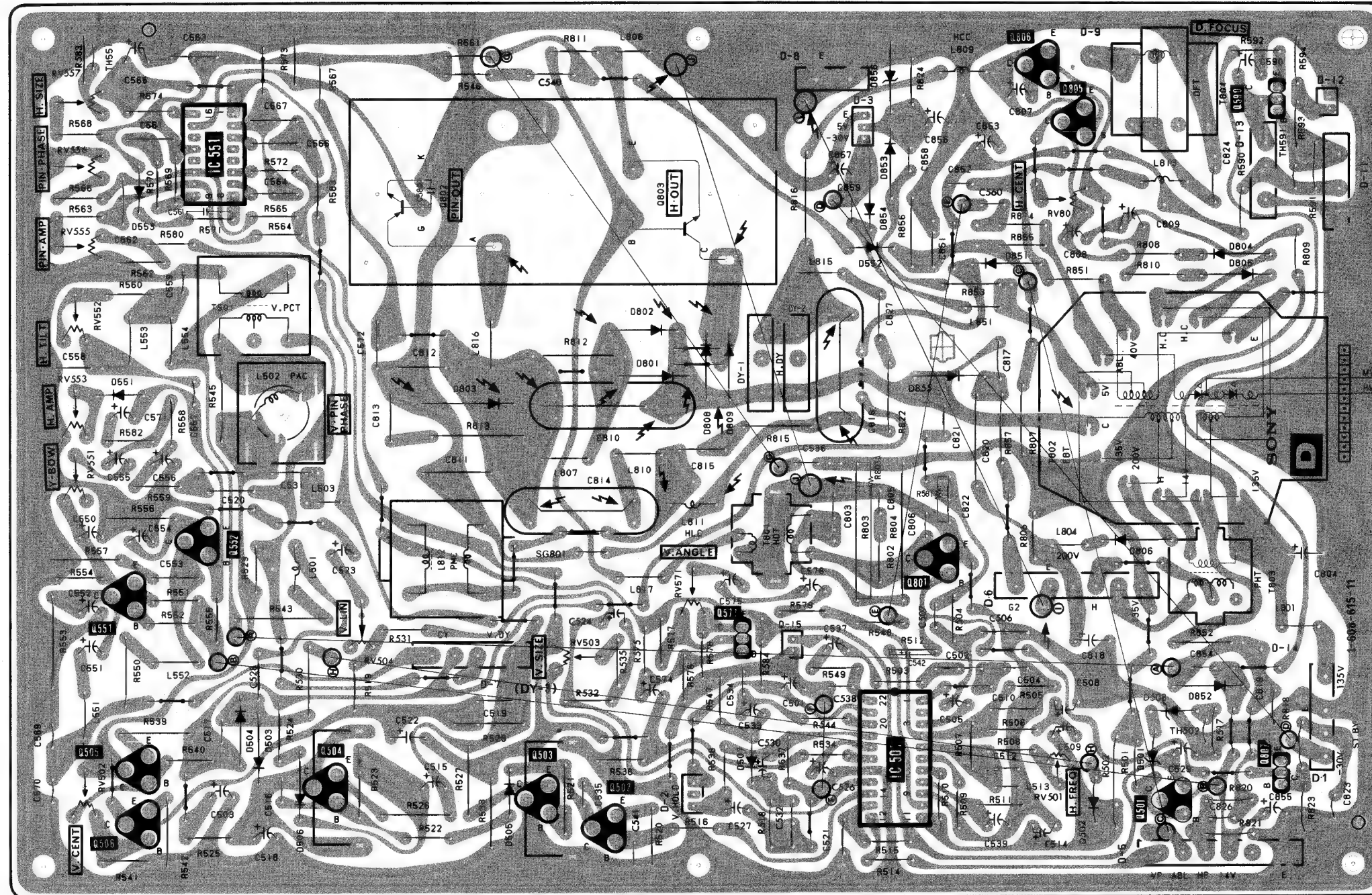
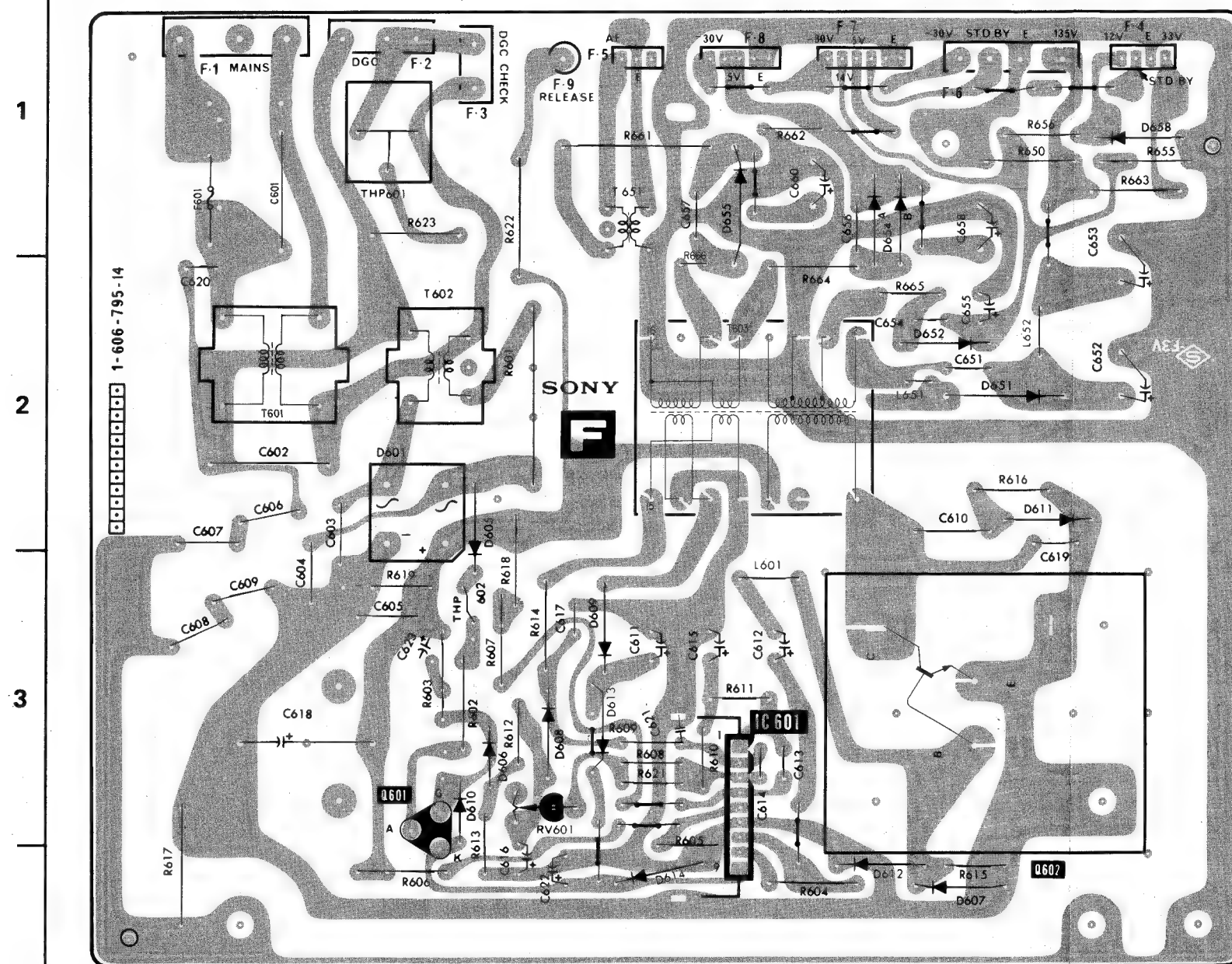
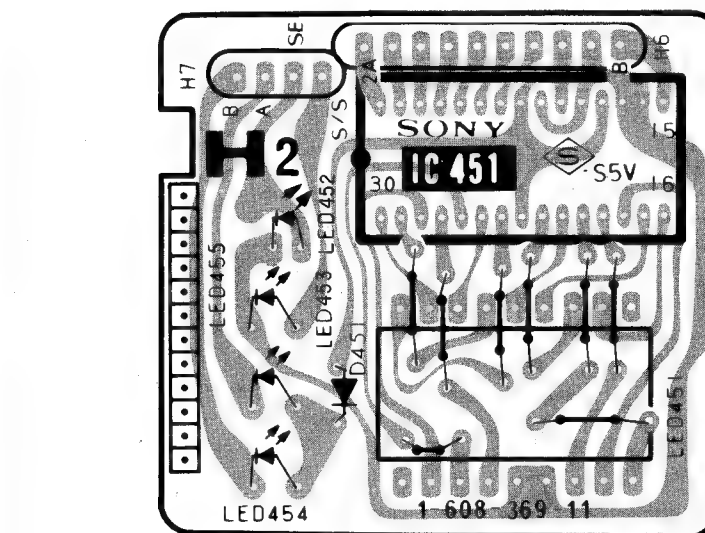
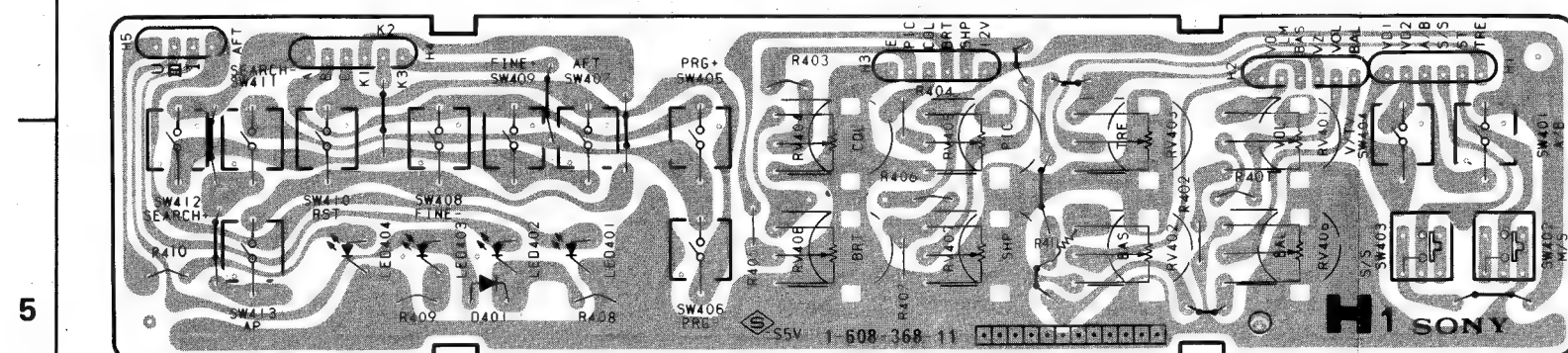


Diagram of a 12-inch scale bar divided into 7 equal segments labeled A through G. Below the scale, two labels are present: "- F Board -" under the first segment (A) and "- H₂ Board -" under the fifth segment (E).



4 — H_1 Board —



J1

[V HOLD, MULT IN
AUDIO OUT]

J2

[HEADPHONE]

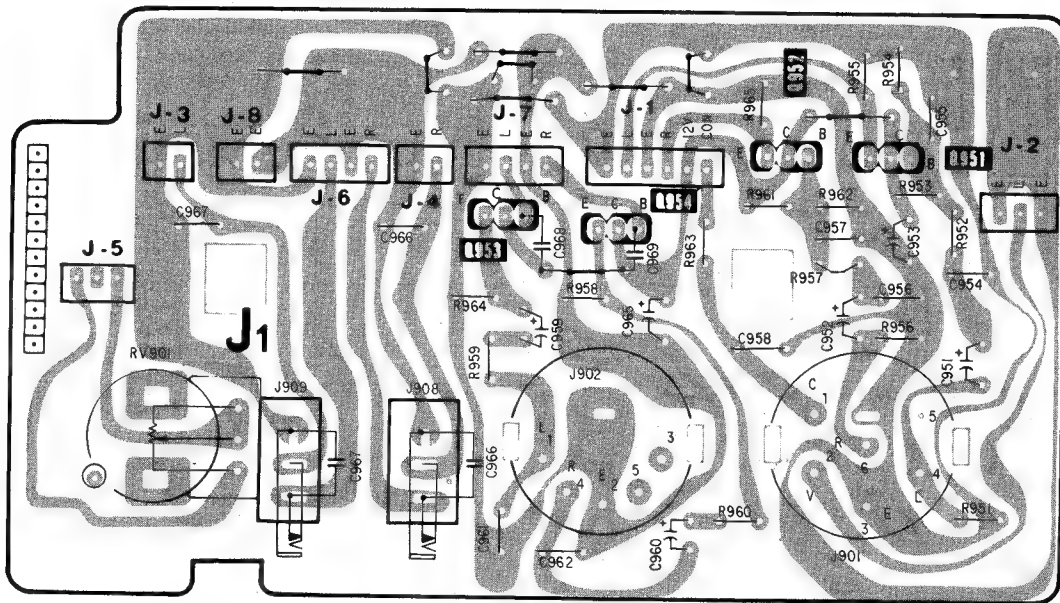
A

B

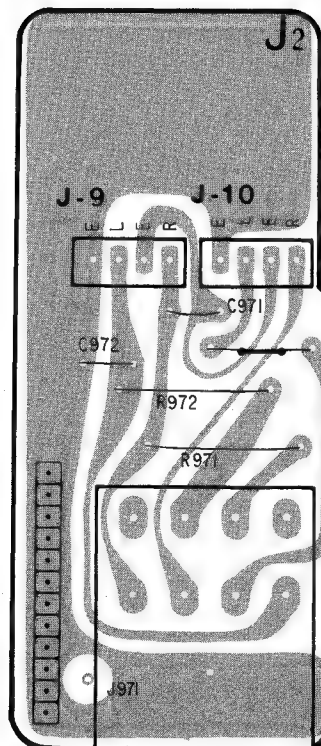
C

D

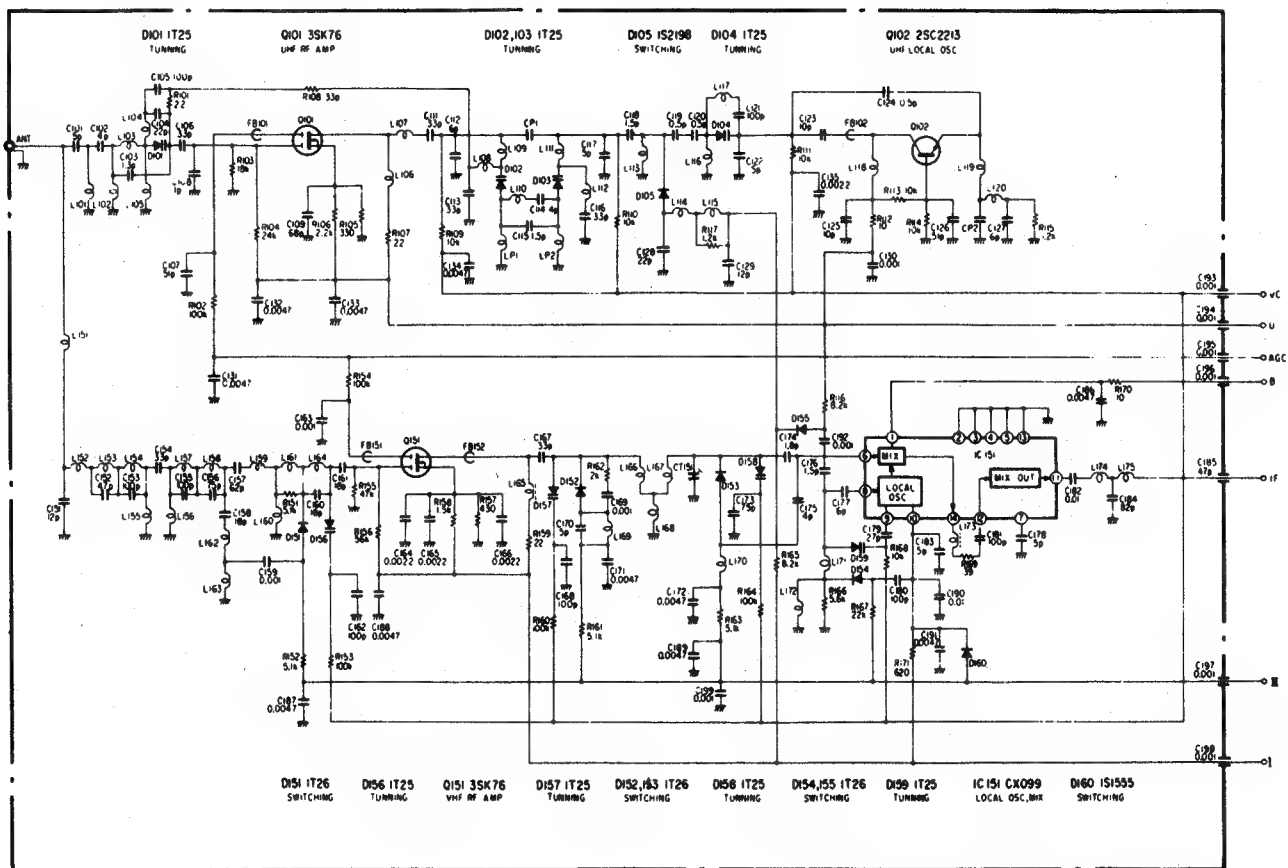
— J₁ Board —



— J₂ Board —



3-6. VHF/UHF TUNER SCHEMATIC DIAGRAM BT-881



Note: Tuner reference numbers are not included in the Electrical Parts List.

SECTION 4 EXPLODED VIEWS

NOTE:

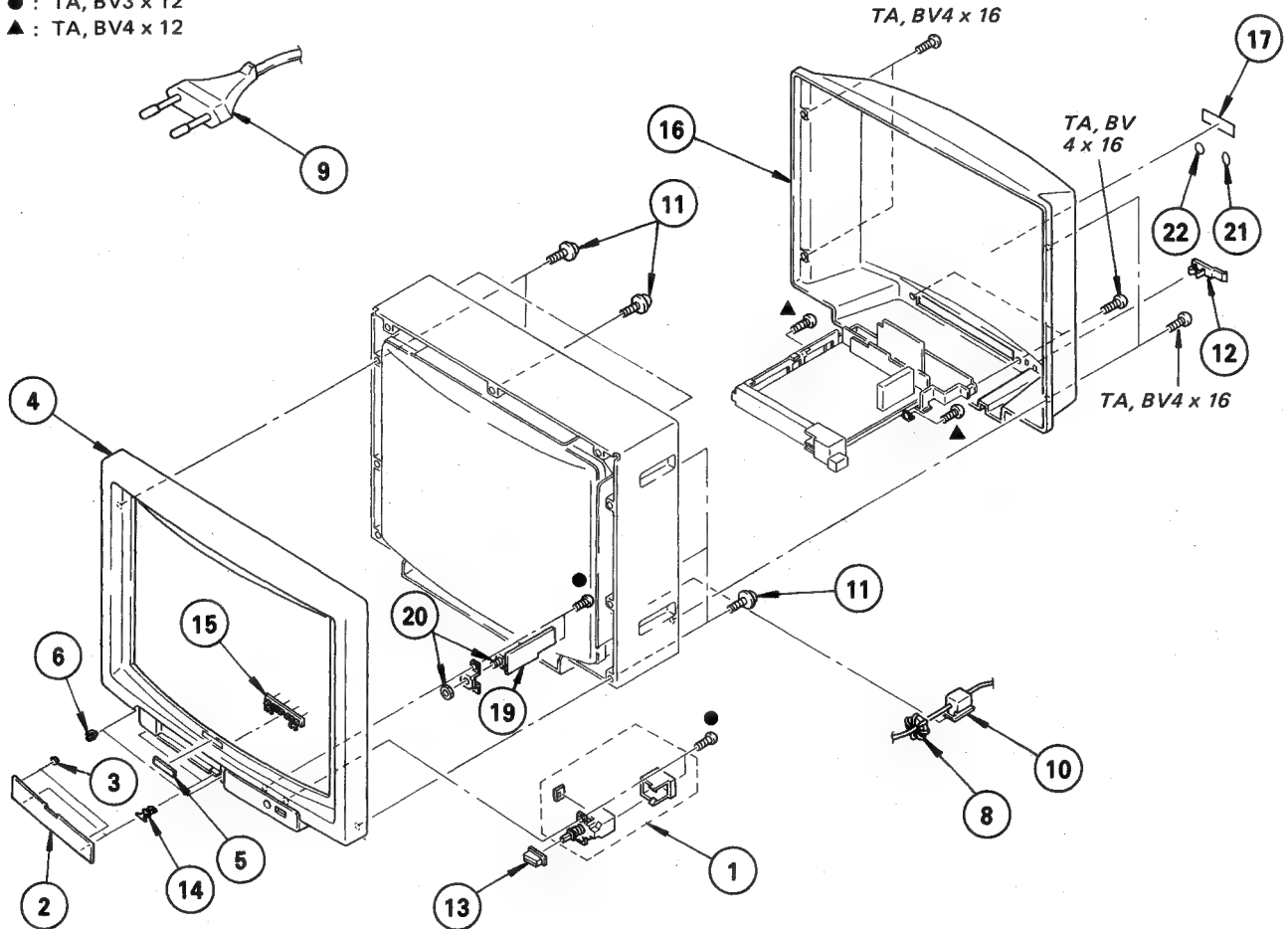
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

(1) BEZEL

- : TA, BV3 x 12
- ▲ : TA, BV4 x 12

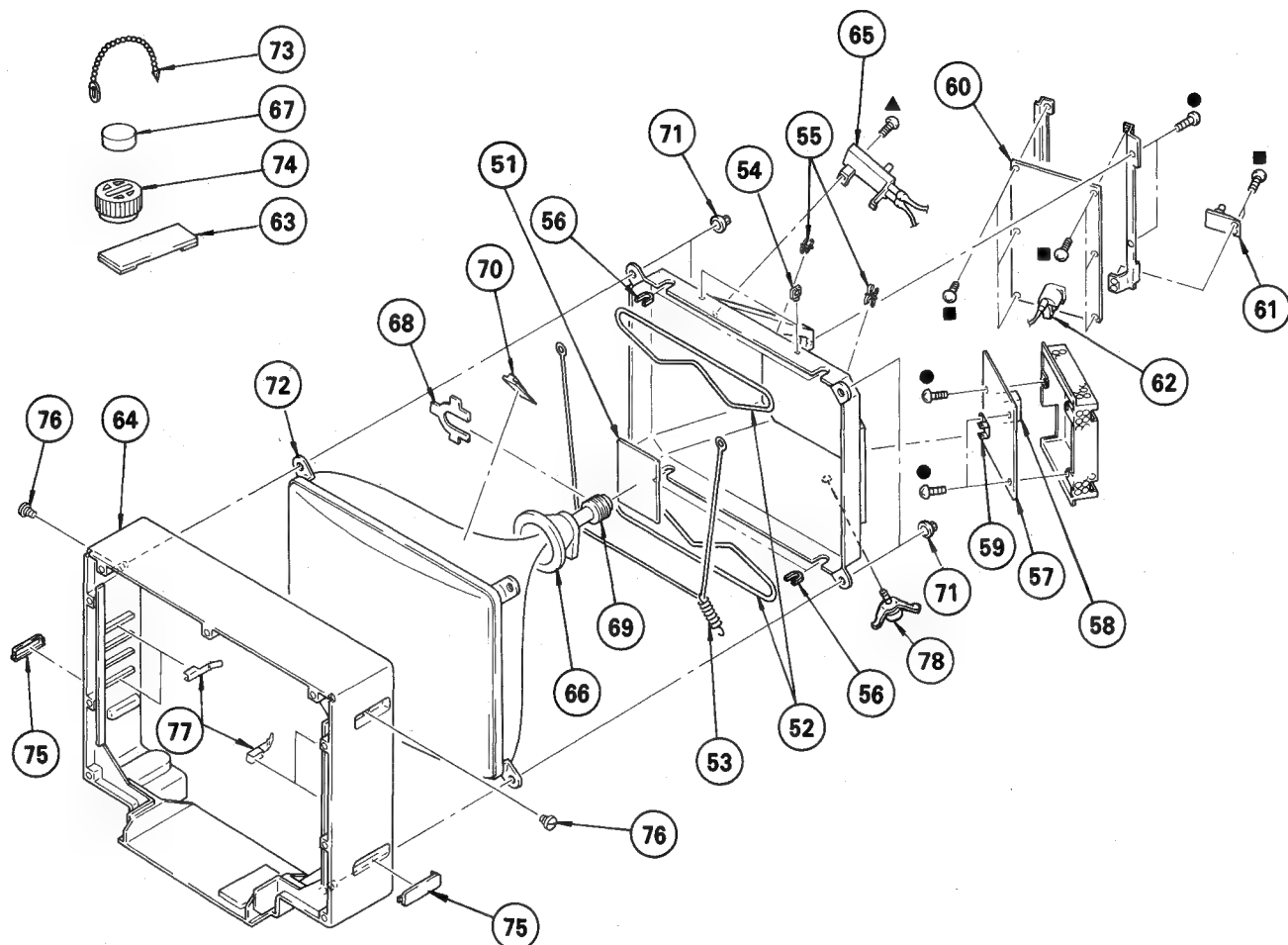


No.	Part No.	Description	Remark
1	▲ 1-553-225-00	SWITCH, PUSH	
2	X-4361-901-0	DOOR ASSY	3
3	4-314-871-00	CUSHION	
4	X-4361-902-0	BEZEL ASSY	5, 6
5	3-701-912-00	EMBLEM, SONY, (LARGE)	
6	4-342-511-00	RETAINER, DOOR	
8	1-543-179-00	CORE, RING	
9	▲ 1-551-270-00	CORD, POWER	
10	▲ 4-022-115-00	HOLDER, AC CORD	
11	4-304-494-11	SCREW, TAPPING, +PW4X16	

No.	Part No.	Description	Remark
12	4-329-127-00	CLAMP, CORD	
13	4-361-901-00	BUTTON, POWER	
14	♦ 4-361-905-00	SHAFT, DOOR	
15	4-361-917-00	BUTTON, MULTI	
16	4-361-927-00	COVER, BACK	
17	♦ 4-361-967-00	LABEL, MODEL NUMBER	
19	♦ 1-608-366-00	J2 BOARD	
20	1-507-657-00	JACK	
21	3-703-269-00	LABEL, SEV	
22	4-310-380-00	LABEL, DEMKO	

(2) CABINET

- : TA, BV3 x 8
- : TA, BV3 x 12
- ▲ : TA, BV4 x 12

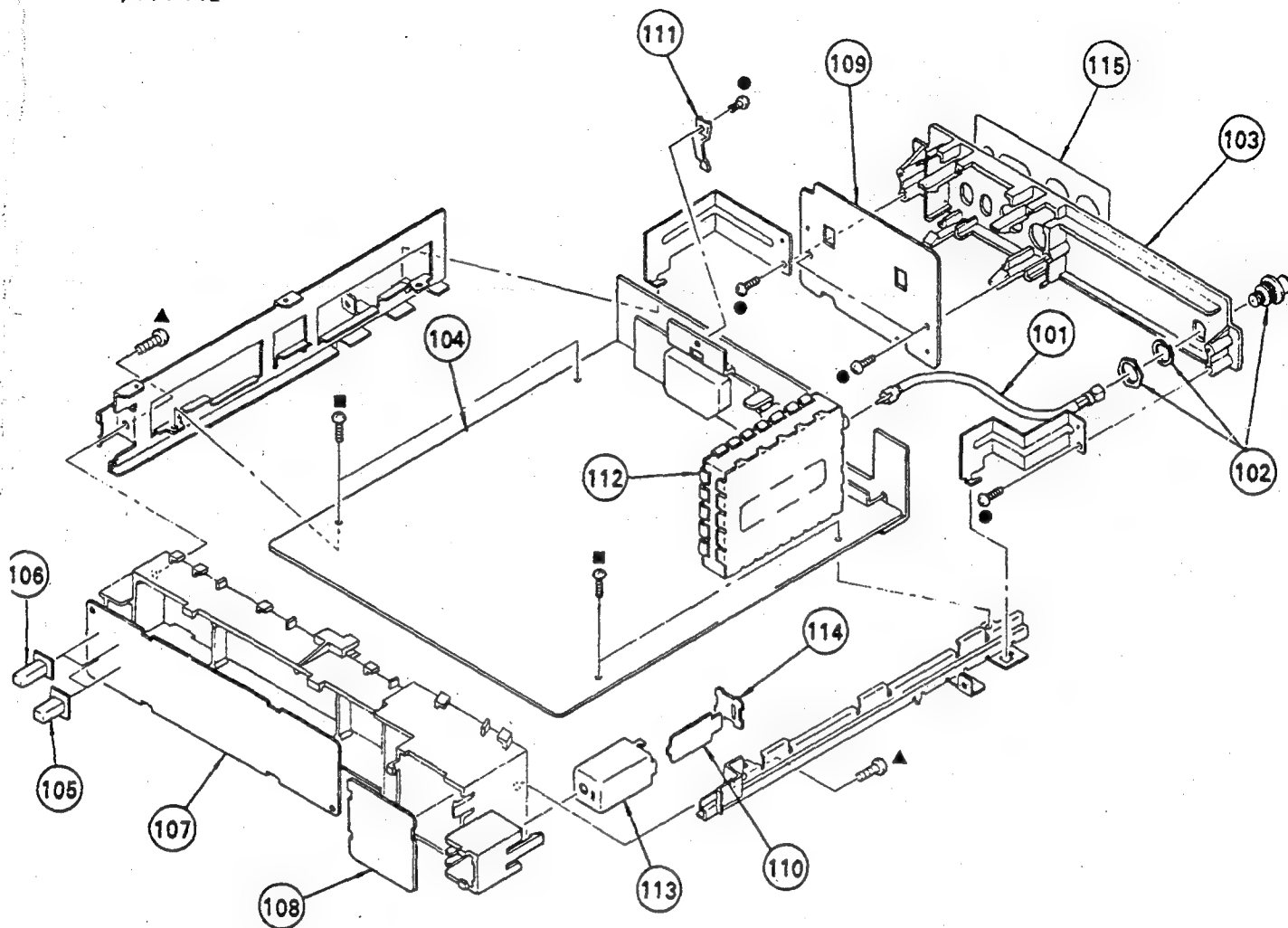


No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	▲:A-1330-389-A	C BOARD, COMPLETE		65	▲.1-228-544-00	RESISTOR ASSY, HIGH-VOLTAGE, HVR	
52	▲.1-426-041-00	COIL, DEGAUSSING		66	▲.1-451-156-71	DEFLECTION YOKE (SY-105)	
53	4-303-774-XX	SPRING		67	1-452-032-00	MAGNET, DISK; 10mmφ	
54	▲:4-308-840-00	HOLDER, WIRE		68	1-452-146-00	MAGNET, BMC	
55	▲:4-322-922-00	HOLDER, COIL, DEGAUSSER		69	▲.1-452-203-51	CRT NECK ASSEMBLY	
56	▲:4-330-306-00	BUSHING, CRT INSULATING		70	3-703-003-00	SPACER, DY	
57	▲:A-1245-167-A	F BOARD, COMPLETE		71	4-330-305-00	NUT, SPECIAL	
58	▲.1-413-093-00	SRT (AZ1-56310A)		72	▲.8-738-405-05	CRT (680DB22)	
59	▲:4-361-929-00	SPRING		73	4-308-870-00	CLIP, LEAD WIRE	
60	▲:A-1345-390-A	D BOARD, COMPLETE		74	1-452-094-00	MAGNET, ROTATABLE DISK; 15mmφ	
61	▲.1-215-066-21	RES ASSY, HIGH-VOLTAGE, MVR		75	4-361-907-00	PLATE, ORNAMENTAL, CABINET	
62	▲.1-439-289-00	TRANSFORMER ASSY, FLYBACK		76	4-363-611-00	SCREW, ORNAMENTAL	
63	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE		77	▲:4-363-646-00	HOLDER, CORD	
64	X-4361-903-0	CABINET ASSY		78	4-305-021-00	SCREW (+BV 3X8), TAPPING	

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

(3) A BOARD

- : TA, BV3 x 8
- : TA, BV3 x 12
- ▲ : TA, BV4 x 12



No.	Part No.	Description
101	1-556-140-00	CABLE, ANTENNA
102	▲1-561-825-00	SOCKET, ANTENNA INPUT
103	4-361-920-00	PANEL, CONNECTOR
104	▲:A-1295-672-A	A BOARD, COMPLETE
105	4-361-938-00	PUSH BUTTON (A)
106	4-361-939-00	PUSH BUTTON (B)
107	▲:1-608-368-00	H1 BOARD
108	▲:1-608-369-00	H2 BOARD

Remark	No.	Part No.	Description	Remark
	109	▲:1-608-367-00	J1 BOARD	
	110	▲:1-606-794-00	N BOARD	
	111	4-327-002-00	REG HOLD	
111, 112	112	▲1-463-421-00	TUNER, ET (BT-883)	
	113	▲:4-342-117-00	CASE, SHIELD (MAIN), R	
	114	▲:4-342-118-00	LID, SHIELD CASE, R	
	115	4-361-936-00	PLATE, CONNECTOR	

NOTE:

ELECTRICAL PARTS LIST

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS
• MF : μ F, PF : μ PF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
▲:A-1245-167-A		F BOARD, COMPLETE *****		D654	8-719-982-04	DIODE ERB81-004	
3-701-353-00		SPACER, MICA		D655	=>8-719-900-26	DIODE ERD29-08J	
3-701-609-00		BUSHING (B), TR		D658	=>8-719-930-12	DIODE EQB01-12Z	
▲:4-314-938-01		RETAINER (TO-3), TRANSISTOR		CONNECTOR			
▲:4-336-010-00		HEAT SINK		F1	▲:1-506-348-XX	3P PLUG (L)	
▲:4-356-301-00		HEAT SINK (D)		F2	▲:1-508-765-00	3P PLUG (M)	
CAPACITOR				F3	▲:1-508-786-00	2P PLUG (M)	
C601	▲1-108-745-00	MYLAR	0.22MF 20% 300V	F4	▲:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
C602	▲1-108-747-00	MYLAR	0.1MF 20% 300V	F5	▲:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
C603	▲1-161-964-00	CERAMIC	0.0047MF 250V	F6	▲:1-508-766-00	4P PLUG (M)	
C604	1-161-964-00	CERAMIC	0.0047MF 250V	F7	▲:1-560-126-00	PLUG, CONNECTOR (2.5MM PITCH) 6P	
C605	1-161-964-00	CERAMIC	0.0047MF 250V	F9	▲:1-508-784-00	1P PLUG	
C606	▲1-161-953-00	FILM	0.0047MF 20% 400V	FUSE			
C607	▲1-161-953-00	FILM	0.0047MF 20% 400V	F601	▲1-532-237-00	FUSE, TIME-LAG 3.15A	
C608	▲1-161-953-00	FILM	0.0047MF 20% 400V		▲:1-533-087-00	HOLDER, FUSE, F601	
C609	▲1-161-953-00	FILM	0.0047MF 20% 400V	IC			
C610	1-129-901-00	FILM	0.0022MF 10% 1KV	IC601	8-759-046-00	IC TDA4600	
C611	1-123-335-00	ELECT	330MF 20% 25V	COIL			
C612	1-123-388-00	ELECT	100MF 20% 100V	L601	1-408-225-00	MICRO INDUCTOR 3.3UH	
C613	1-108-376-00	MYLAR	0.0082MF 10% 100V	L651	1-425-613-00	COIL, AIR-CORE, QF TYPE	
C614	1-102-959-00	CERAMIC	22PF 5% 50V	L652	1-459-215-00	CORE COIL; 120UH	
C615	1-123-380-00	ELECT	1MF 20% 50V	TRANSISTOR			
C616	1-123-381-00	ELECT	2.2MF 20% 50V	Q601	8-719-000-28	THYRISTOR CRO2AM-8	
C617	1-108-373-00	MYLAR	0.0047MF 10% 100V	Q602	=>8-729-341-34	TRANSISTOR 2SC1413A	
C618	1-125-167-00	ELECT (BLOCK)	250MF 400V	RESISTOR			
C619	1-102-327-00	CERAMIC	330PF 15% 1.5KV	R601	▲1-217-328-00	WIREWOUND	2.7 10% 7W F
C621	1-102-074-00	CERAMIC	0.001MF 10% 50V	R602	1-206-664-00	METAL	1K 5% 2W F
C622	1-123-356-00	ELECT	10MF 20% 50V	R603	1-244-935-00	CARBON	390K 5% 1/2W
C651	1-102-327-00	CERAMIC	330PF 15% 1.5KV	R604	1-212-355-00	METAL	0.39 5% 1W F
C652	1-123-263-00	ELECT	33MF 20% 250V	R605	1-246-489-00	CARBON	4.7K 5% 1/4W
C653	1-123-263-00	ELECT	33MF 20% 250V	R606	1-244-935-00	CARBON	390K 5% 1/2W
C654	1-102-030-00	CERAMIC	330PF 10% 500V	R607	1-244-923-00	CARBON	120K 5% 1/2W
C655	1-123-333-00	ELECT	100MF 20% 25V	R608	1-246-501-00	CARBON	15K 5% 1/4W
C656	1-102-030-00	CERAMIC	330PF 10% 500V	R609	1-246-497-00	CARBON	10K 5% 1/4W
C657	1-102-030-00	CERAMIC	330PF 10% 500V	R610	1-246-475-00	CARBON	1.2K 5% 1/4W
C658	1-123-350-00	ELECT	2200MF 20% 35V	R611	1-246-457-00	CARBON	220 5% 1/4W
C660	1-123-364-00	ELECT	1000MF 20% 50V	R612	1-246-492-00	CARBON	6.2K 5% 1/4W
DIODE				R613	1-246-479-00	CARBON	1.8K 5% 1/4W
D601	8-719-503-06	DIODE S3WB60Z		R614	1-213-126-00	METAL	39 5% 1W F
D605	=>8-719-300-45	DIODE EM1Z		R615	1-247-031-00	CARBON	27 5% 1/8W F
D606	=>8-719-101-79	DIODE RD11E-L1		R616	1-217-268-00	WIREWOUND	39 10% 3W F
D607	=>8-719-300-45	DIODE EM1Z		R617	▲1-247-687-00	CARBON	6.8M 5% 1W
D608	=>8-719-300-76	DIODE RH1A		R618	1-244-925-00	CARBON	150K 5% 1/2W
D609	=>8-719-300-76	DIODE RH1A		R619	1-202-846-00	COMPOSITION	470K 1/2W
D610	8-719-911-19	DIODE ISS119		R621	1-246-529-00	CARBON	220K 5% 1/4W
D611	=>8-719-924-06	DIODE ERC24-06S		R622	▲1-247-687-00	CARBON	6.8M 5% 1W
D613	=>8-719-300-45	DIODE EM1Z					
D614	8-719-931-17	DIODE EQB01-17					
D651	=>8-719-928-08	DIODE ERD28-08					
D652	=>8-719-924-06	DIODE ERC24-06S					

Ref.No.	Part No.	Description	Remark
R623	▲:1-205-653-00	CEMENT-COATED	100 5% 5W
R650	1-213-161-00	METAL	33K 5% 1W F
R655	1-213-143-00	METAL	1K 5% 1W F
R656	1-212-875-00	FUSIBLE	56 5% 1/4W F
R661	1-217-602-00	FUSIBLE	4.7 5% 2W
R662	1-246-459-00	CARBON	270 5% 1/4W
R663	1-213-158-00	METAL	18K 5% 1W F
R664	1-207-451-00	WIREWOUND	0.1 10% 1/2W
R665	1-247-020-00	CARBON	1 5% 1/8W F
R666	1-212-355-00	METAL	0.39 5% 1W F

VARIABLE RESISTOR

RV601 1-226-849-00 RES, ADJ, CARBON 3.3K

TRANSFORMER

T601	▲:1-421-352-00	TRANSFORMER, FERRITE, LFT
T602	▲:1-421-412-00	COIL, FERRITE
T603	▲:1-413-093-00	SRT (AZ1-56310A)
T651	▲:1-421-357-31	TRANSFORMER, LINE FILTER, LFT

THERMISTOR

▲:THP601.1-806-387-00 THERMISTOR (POSITIVE)
 THP602 1-806-449-21 THERMISTOR (POSITIVE)

▲:A-1295-636-A A BOARD, COMPLETE

4-327-002-00 REG HOLD
 ▲:4-361-902-00 CASE (2) (UPPER), SHIELD, VIF
 ▲:4-361-903-00 CASE (2) (MAIN), SHIELD, VIF
 ▲:4-361-904-00 CASE (2) (LOWER), SHIELD, VIF
 ▲:4-361-913-00 CASE (1) (UPPER), SHIELD, VIF
 ▲:4-361-914-00 CASE (1) (MAIN), SHIELD, VIF
 ▲:4-361-915-00 CASE (1) (LOWER), SHIELD, VIF
 ▲:4-361-942-00 CASE, SHIELD, TUNER

CONNECTOR

A3 ▲:1-508-768-00 6P PLUG
 A5 ▲:1-560-126-00 PLUG, CONNECTOR (2.5MM) 6P
 A7 ▲:1-560-123-00 PLUG, CONNECTOR (2.5MM) 3P
 A9 ▲:1-560-126-00 PLUG, CONNECTOR (2.5MM) 6P
 A12 ▲:1-560-123-00 PLUG, CONNECTOR (2.5MM) 3P
 A14 ▲:1-560-124-00 PLUG, CONNECTOR (2.5MM PITCH) 4P
 A15 ▲:1-560-127-00 PLUG, CONNECTOR (2.5MM PITCH) 7P
 A16 ▲:1-560-124-00 PLUG, CONNECTOR (2.5MM PITCH) 4P
 A17 ▲:1-560-123-00 PLUG, CONNECTOR (2.5MM PITCH) 3P
 A18 ▲:1-560-124-00 PLUG, CONNECTOR (2.5MM PITCH) 4P
 A19 ▲:1-560-124-00 PLUG, CONNECTOR (2.5MM PITCH) 4P
 A20 ▲:1-560-124-00 PLUG, CONNECTOR (2.5MM) 4P
 A21 ▲:1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH) 2P
 A22 ▲:1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH) 2P
 A23 ▲:1-560-124-00 PLUG, CONNECTOR (2.5MM) 4P

Ref.No.	Part No.	Description	Remark
A29	▲:1-508-786-00	2P PLUG (M)	

CAPACITOR

C001	1-123-328-00	ELECT	4.7MF	20%	25V
C002	1-102-108-00	CERAMIC	150PF	10%	50V
C003	1-102-108-00	CERAMIC	150PF	10%	50V
C004	1-123-330-00	ELECT	22MF	20%	25V
C005	1-123-382-00	ELECT	3.3MF	20%	50V
C006	1-123-382-00	ELECT	3.3MF	20%	50V
C008	1-123-380-00	ELECT	1MF	20%	50V
C009	1-123-380-00	ELECT	1MF	20%	50V
C010	1-102-074-00	CERAMIC	0.001MF	10%	50V
C012	1-123-356-00	ELECT	10MF	20%	50V
C013	1-123-328-00	ELECT	4.7MF	20%	25V
C014	1-123-356-00	ELECT	10MF	20%	50V
C015	1-102-963-00	CERAMIC	33PF	5%	50V
C016	1-102-963-00	CERAMIC	33PF	5%	50V
C022	1-161-964-00	CERAMIC	0.0047MF		250V
C023	1-123-380-00	ELECT	1MF	20%	50V
C031	1-123-356-00	ELECT	10MF	20%	50V
C032	1-123-379-00	ELECT	0.47MF	20%	50V
C033	1-123-330-00	ELECT	22MF	20%	25V
C102	1-123-318-00	ELECT	33MF	20%	16V
C103	1-101-004-00	CERAMIC	0.01MF		50V
C104	1-101-004-00	CERAMIC	0.01MF		50V
C106	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C107	1-123-318-00	ELECT	33MF	20%	16V
C109	1-108-389-00	MYLAR	0.1MF	10%	100V
C110	1-102-959-00	CERAMIC	22PF	5%	50V
C111	1-130-723-00	FILM	0.1MF	2%	50V
C112	1-130-723-00	FILM	0.1MF	2%	50V
C113	1-108-381-00	MYLAR	0.022MF	10%	100V
C114	1-103-733-00	POLYSTYRENE	0.0022MF	5%	50V
C115	1-123-380-00	ELECT	1MF	20%	50V
C116	1-123-328-00	ELECT	4.7MF	20%	25V
C117	1-130-722-00	FILM	0.047MF	2%	50V
C118	1-130-722-00	FILM	0.047MF	2%	50V
C119	1-108-381-00	MYLAR	0.022MF	10%	100V
C120	1-123-356-00	ELECT	10MF	20%	16V
C121	1-123-356-00	ELECT	10MF	20%	16V
C124	1-123-356-00	ELECT	10MF	20%	16V
C127	1-123-380-00	ELECT	1MF	20%	50V
C128	1-101-004-00	CERAMIC	0.01MF		50V
C129	1-101-004-00	CERAMIC	0.01MF		50V
C130	1-123-356-00	ELECT	10MF	20%	25V
C145	1-108-377-00	MYLAR	0.01MF	10%	100V
C146	1-108-377-00	MYLAR	0.01MF	10%	100V
C147	1-101-004-00	CERAMIC	0.01MF		50V
C148	1-123-356-00	ELECT	10MF	20%	25V
C149	1-123-379-00	ELECT	0.47MF	20%	50V
C150	1-102-074-00	CERAMIC	0.001MF	10%	50V
C151	1-102-114-00	CERAMIC	470PF	10%	50V
C152	1-123-379-00	ELECT	0.47MF	20%	50V

When indicating parts by reference number, please include the board name.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C153	1-123-334-00	ELECT	220MF 20% 25V	C232	1-102-937-00	CERAMIC	4PF 0.25PF 50V
C154	1-108-252-00	MYLAR	0.15MF 10% 50V	C233	1-102-937-00	CERAMIC	4PF 0.25PF 50V
C155	1-123-359-00	ELECT	47MF 20% 50V	C234	1-102-518-00	CERAMIC	33PF 5% 50V
C156	1-123-364-00	ELECT	1000MF 20% 50V	C235	1-102-529-00	CERAMIC	100PF 5% 50V
C157	1-123-380-00	ELECT	1MF 20% 50V	C236	1-102-529-00	CERAMIC	100PF 5% 50V
C158	1-123-364-00	ELECT	1000MF 20% 50V	C237	1-102-518-00	CERAMIC	33PF 5% 50V
C159	1-123-359-00	ELECT	47MF 20% 50V	C243	1-102-125-00	CERAMIC	0.0047MF 10% 50V
C160	1-123-360-00	ELECT	100MF 20% 50V	C245	1-102-125-00	CERAMIC	0.0047MF 10% 50V
C161	1-123-331-00	ELECT	33MF 20% 25V	C246	1-161-328-00	CERAMIC	0.0047MF 30% 50V
C162	1-108-252-00	MYLAR	0.15MF 10% 50V	C247	1-123-356-00	ELECT	10MF 20% 25V
C163	1-123-364-00	ELECT	1000MF 20% 50V	C248	1-102-125-00	CERAMIC	0.0047MF 10% 50V
C164	1-123-334-00	ELECT	220MF 20% 25V	C249	1-102-508-00	CERAMIC	10PF 0.5PF 50V
C165	1-123-379-00	ELECT	0.47MF 20% 50V	C252	1-102-508-00	CERAMIC	10PF 0.5PF 50V
C166	1-102-114-00	CERAMIC	470PF 10% 50V	C254	1-101-004-00	CERAMIC	0.01MF 50V
C167	1-123-380-00	ELECT	1MF 20% 50V	C255	1-101-004-00	CERAMIC	0.01MF 50V
C168	1-123-323-00	ELECT	470MF 20% 16V	C257	1-102-959-00	CERAMIC	22PF 5% 50V
C169	1-123-332-00	ELECT	47MF 20% 16V	C258	1-101-004-00	CERAMIC	0.01MF 50V
C170	1-123-328-00	ELECT	4.7MF 20% 25V	C259	1-123-318-00	ELECT	33MF 20% 16V
C171	1-123-379-00	ELECT	0.47MF 20% 50V	C262	1-123-382-00	ELECT	3.3MF 20% 50V
C172	1-123-325-00	ELECT	2200MF 20% 16V	C263	1-123-382-00	ELECT	3.3MF 20% 50V
C173	1-108-393-00	MYLAR	0.22MF 10% 100V	C264	1-123-382-00	ELECT	3.3MF 20% 50V
C174	1-123-328-00	ELECT	4.7MF 20% 25V	C265	1-123-382-00	ELECT	3.3MF 20% 50V
C177	1-123-332-00	ELECT	47MF 20% 16V	C266	1-123-332-00	ELECT	47MF 20% 16V
C178	1-102-038-00	CERAMIC	0.001MF 500V	C267	1-108-373-00	MYLAR	0.0047MF 10% 100V
C179	1-102-038-00	CERAMIC	0.001MF 500V	C268	1-108-390-00	MYLAR	0.12MF 10% 100V
C201	1-108-387-00	MYLAR	0.068MF 10% 100V	C269	1-108-373-00	MYLAR	0.0047MF 10% 100V
C202	1-108-387-00	MYLAR	0.068MF 10% 100V	C270	1-108-390-00	MYLAR	0.12MF 10% 100V
C203	1-102-963-00	CERAMIC	33PF 5% 50V	C271	1-123-356-00	ELECT	10MF 20% 16V
C204	1-123-318-00	ELECT	33MF 20% 16V	C272	1-123-356-00	ELECT	10MF 20% 16V
C206	1-123-356-00	ELECT	10MF 20% 16V	C273	1-123-356-00	ELECT	10MF 20% 16V
C207	1-108-389-00	MYLAR	0.1MF 10% 100V	C274	1-123-332-00	ELECT	47MF 20% 16V
C208	1-123-356-00	ELECT	10MF 20% 16V	C275	1-123-380-00	ELECT	1MF 20% 50V
C209	1-123-318-00	ELECT	33MF 20% 16V	C276	1-123-333-00	ELECT	100MF 20% 16V
C210	1-123-380-00	ELECT	1MF 20% 50V	C277	1-102-973-00	CERAMIC	100PF 5% 50V
C211	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C278	1-102-973-00	CERAMIC	100PF 5% 50V
C212	1-102-529-00	CERAMIC	100PF 5% 50V	C279	1-123-332-00	ELECT	47MF 20% 16V
C213	1-102-527-00	CERAMIC	82PF 5% 50V	C289	1-123-318-00	ELECT	33MF 20% 16V
C214	1-102-808-00	CERAMIC	6PF 1PF 50V	C291	1-123-333-00	ELECT	100MF 20% 16V
C215	1-102-513-00	CERAMIC	18PF 5% 50V	C292	1-123-333-00	ELECT	100MF 20% 16V
C216	1-102-520-00	CERAMIC	39PF 5% 50V	C293	1-123-333-00	ELECT	100MF 20% 16V
C217	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C294	1-123-318-00	ELECT	33MF 20% 16V
C218	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C295	1-123-318-00	ELECT	33MF 20% 16V
C219	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C297	1-102-125-00	CERAMIC	0.0047MF 10% 50V
C220	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C299	1-101-004-00	CERAMIC	0.01MF 50V
C221	1-161-328-00	CERAMIC	0.0047MF 30% 50V	C301	1-101-880-00	CERAMIC	47PF 5% 50V
C222	1-161-328-00	CERAMIC	0.0047MF 30% 50V	C302	1-102-678-00	CERAMIC	100PF 5% 50V
C223	1-123-379-00	ELECT	0.47MF 20% 50V	C303	1-102-889-00	CERAMIC	39PF 5% 50V
C224	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C304	1-101-004-00	CERAMIC	0.01MF 50V
C225	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C305	1-102-889-00	CERAMIC	39PF 5% 50V
C226	1-123-318-00	ELECT	33MF 20% 16V	C306	1-123-356-00	ELECT	10MF 20% 16V
C227	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C307	1-123-380-00	ELECT	1MF 20% 50V
C230	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C308	1-108-383-00	MYLAR	0.033MF 10% 100V
C231	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C309	1-108-367-00	MYLAR	0.0015MF 10% 100V

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C310	1-102-114-00	CERAMIC	470PF	10%	50V		
C311	1-102-114-00	CERAMIC	470PF	10%	50V		
C312	1-102-114-00	CERAMIC	470PF	10%	50V		
C313	1-123-379-00	ELECT	0.47MF	20%	50V		
C314	1-123-382-00	ELECT	3.3MF	20%	50V		
C315	1-123-380-00	ELECT	1MF	20%	50V		
C316	1-108-389-00	MYLAR	0.1MF	10%	100V		
C317	1-101-004-00	CERAMIC	0.01MF		50V		
C318	1-123-380-00	ELECT	1MF	20%	50V		
C319	1-123-318-00	ELECT	33MF	20%	16V		
C320	1-161-379-00	CERAMIC	0.01MF	20%	25V		
C321	1-123-382-00	ELECT	3.3MF	20%	50V		
C322	1-123-380-00	ELECT	1MF	20%	50V		
C323	1-101-884-00	CERAMIC	56PF	5%	50V		
C324	1-102-112-00	CERAMIC	330PF	10%	50V		
C325	1-101-888-00	CERAMIC	68PF	5%	50V		
C326	1-102-525-00	CERAMIC	68PF	5%	50V		
C327	1-102-953-00	CERAMIC	18PF	5%	50V		
C328	1-108-385-00	MYLAR	0.047MF	10%	100V		
C329	1-108-385-00	MYLAR	0.047MF	10%	100V		
C330	1-123-379-00	ELECT	0.47MF	20%	50V		
C331	1-102-973-00	CERAMIC	100PF	5%	50V		
C332	1-102-971-00	CERAMIC	82PF	5%	50V		
C333	1-101-004-00	CERAMIC	0.01MF		50V		
C334	1-101-004-00	CERAMIC	0.01MF		50V		
C335	1-101-004-00	CERAMIC	0.01MF		50V		
C337	1-102-963-00	CERAMIC	33PF	5%	50V		
C338	1-123-356-00	ELECT	10MF	20%	25V		
C339	1-123-380-00	ELECT	1MF	20%	50V		
C340	1-123-318-00	ELECT	33MF	20%	16V		
C341	1-123-318-00	ELECT	33MF	20%	16V		
C342	1-123-333-00	ELECT	100MF	20%	16V		
C343	1-101-004-00	CERAMIC	0.01MF		50V		
C345	1-102-074-00	CERAMIC	0.001MF	10%	50V		
C379	1-108-385-00	MYLAR	0.047MF	10%	100V		
C382	1-123-297-00	ELECT	330MF	20%	6.3V		
C383	1-123-297-00	ELECT	330MF	20%	6.3V		
C384	1-102-108-00	CERAMIC	150PF	10%	50V		
C385	1-123-330-00	ELECT	22MF	20%	16V		
C386	1-101-004-00	CERAMIC	0.01MF		50V		
C389	1-101-004-00	CERAMIC	0.01MF		50V		
C390	1-161-313-00	CERAMIC	150PF	10%	50V		
<u>FILTER</u>				<u>DIODE</u>			
CD101	1-404-379-00	DISCRIMINATOR, CERAMIC	5.74MHZ	D001	8-759-157-40	IC UPC574J	
CD204	1-404-380-00	DISCRIMINATOR, CERAMIC	5.5MHZ	D002	8-719-100-90	DIODE RD24E-B2	
CF001	1-527-476-00	OSCILLATOR, CERAMIC		D004	8-719-911-19	DIODE 1SS119	
CF002	1-527-932-00	OSCILLATOR, CERAMIC		D005	8-719-911-19	DIODE 1SS119	
CF101	1-527-839-00	FILTER, CERAMIC (5.74MHZ)		D011	8-719-911-19	DIODE 1SS119	
CF102	1-527-930-00	FILTER, CERAMIC (45KHz)		D013	8-719-911-19	DIODE 1SS119	
CF201	1-404-134-00	TRAP, CERAMIC (5.5MHZ)		D017	8-719-911-19	DIODE 1SS119	
CF203	1-527-840-00	FILTER, CERAMIC		D018	8-719-911-19	DIODE 1SS119	
CF301	1-409-332-00	CERAMIC TRAP (4.5MHZ)		D021	8-719-911-19	DIODE 1SS119	
				D022	8-719-911-19	DIODE 1SS119	
				D023	8-719-911-19	DIODE 1SS119	
				D024	8-719-911-19	DIODE 1SS119	
				D025	8-719-911-19	DIODE 1SS119	
				D026	8-719-911-19	DIODE 1SS119	
				D027	8-719-911-19	DIODE 1SS119	
				D151	8-719-911-19	DIODE 1SS119	
				D152	8-719-911-19	DIODE 1SS119	
				D201	8-719-911-19	DIODE 1SS119	
				D205	8-719-911-19	DIODE 1SS119	
				D206	8-719-026-11	DIODE 1T261	
				D207	=>8-719-102-79	DIODE RD6.8E-N3	
				D208	8-719-911-19	DIODE 1SS119	
				D291	=>8-719-100-68	DIODE RD13E-B2	
				D301	8-719-911-19	DIODE 1SS119	
				D302	8-719-911-19	DIODE 1SS119	
				D303	8-719-911-19	DIODE 1SS119	
				D304	8-719-100-24	DIODE RD4.3E-B3	
				D381	8-719-026-11	DIODE 1T261	
				<u>DELAY LINE</u>			
				DL301	1-415-274-00	DELAY LINE, Y	
				DL302	1-415-131-00	DELAY LINE (1H)	
				<u>IC</u>			
				IC001	8-759-600-03	IC M50120P	
				IC002	8-759-600-17	IC M50118P	
				IC003	=>1-526-729-00	SOCKET, IC (1.78MM PITCH) 42P, IC002	
				IC003	8-759-600-16	IC M5G1400P	
				IC004	8-759-600-15	IC M54570L	
				IC005	=>8-759-140-11	IC UPD4011BC	
				IC006	1-235-176-00	MODULE (SELECTION), H8D1461B	
				IC101	8-759-193-91	IC UPC1391H	
				IC102	8-759-927-95	IC TDA2795	
				IC104	8-759-145-58	IC UPC4558C	
				IC105	8-759-340-52	IC HD14052BP	
				IC107	=>8-759-140-13	IC UPD4013BC	
				IC151	8-749-943-62	IC STK4362	
				IC201	8-759-276-07	IC TA7607AP	
				IC202	8-759-028-40	IC TDA2840	
				IC203	8-759-193-91	IC UPC1391H	
				IC204	8-759-276-30	IC TA7630P	

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
IC206	8-759-140-53	IC UPD4053BC		Q109	8-729-117-54	TRANSISTOR 2SA1175	
IC301	8-759-113-65	IC UPC1365C		Q151	8-729-178-54	TRANSISTOR 2SC2785	
				Q152	8-729-178-54	TRANSISTOR 2SC2785	
				Q153	8-729-178-54	TRANSISTOR 2SC2785	
				Q154	8-729-117-54	TRANSISTOR 2SA1175	
<u>COIL</u>							
L001	1-407-177-XX	MICRO INDUCTOR 470UH		Q170	8-729-178-54	TRANSISTOR 2SC2785	
L002	1-407-717-00	MICRO INDUCTOR 1MMH		Q171	8-729-178-54	TRANSISTOR 2SC2785	
L003	1-408-247-00	MICRO INDUCTOR 33MMH		Q172	8-729-178-54	TRANSISTOR 2SC2785	
L101	1-408-678-00	MICRO INDUCTOR 3.9MMH		Q173	8-729-178-54	TRANSISTOR 2SC2785	
L102	1-408-607-00	MICRO INDUCTOR 22UH		Q174	8-729-178-54	TRANSISTOR 2SC2785	
L151	1-459-407-00	COIL, FERRITE CHOKE 30UH		Q175	8-729-178-54	TRANSISTOR 2SC2785	
L152	1-459-407-00	COIL, FERRITE CHOKE 30UH		Q201	8-729-178-54	TRANSISTOR 2SC2785	
L202	1-404-068-00	COIL, VIF		Q202	=>8-765-300-00	TRANSISTOR 2SC2009	
L203	1-404-068-00	COIL, VIF		Q203	8-729-117-54	TRANSISTOR 2SA1175	
L204	1-408-764-51	MICRO INDUCTOR 0.33UH		Q209	8-729-178-54	TRANSISTOR 2SC2785	
L205	1-404-428-00	VIFT		Q291	8-729-109-53	TRANSISTOR 2SD795A	
L206	1-408-615-00	MICRO INDUCTOR 100UH		Q301	8-729-178-54	TRANSISTOR 2SC2785	
L207	1-408-603-00	MICRO INDUCTOR 10UH		Q302	8-729-178-54	TRANSISTOR 2SC2785	
L208	1-408-600-31	MICRO INDUCTOR 5.6UH		Q303	8-729-117-54	TRANSISTOR 2SA1175	
L209	1-404-427-00	VIFT		Q304	8-729-178-54	TRANSISTOR 2SC2785	
L210	1-404-427-00	VIFT		Q305	8-769-200-30	TRANSISTOR 2SK107-3	
L211	1-404-437-00	VIFT		Q306	8-729-178-54	TRANSISTOR 2SC2785	
L212	1-408-600-31	MICRO INDUCTOR 5.6UH		Q310	8-729-117-54	TRANSISTOR 2SA1175	
L213	1-404-428-00	VIFT		Q311	8-729-178-54	TRANSISTOR 2SC2785	
L215	1-404-429-00	VIFT 5.6UH		Q312	8-729-178-54	TRANSISTOR 2SC2785	
L216	1-408-607-00	MICRO INDUCTOR 22UH		Q313	8-729-178-54	TRANSISTOR 2SC2785	
L217	1-408-600-31	MICRO INDUCTOR 5.6UH		Q314	8-729-178-54	TRANSISTOR 2SC2785	
L218	1-408-600-31	MICRO INDUCTOR 5.6UH		Q382	8-729-178-54	TRANSISTOR 2SC2785	
L301	1-408-605-31	MICRO INDUCTOR 15UH		Q383	8-729-178-54	TRANSISTOR 2SC2785	
L302	1-408-600-31	MICRO INDUCTOR 5.6UH		<u>RESISTOR</u>			
L303	1-408-603-00	MICRO INDUCTOR 10UH		R001	1-247-871-00	CARBON 47K 5% 1/6W	
L304	1-408-160-00	MICRO INDUCTOR 15MMH		R003	1-247-863-00	CARBON 22K 5% 1/6W	
L305	1-408-601-00	MICRO INDUCTOR 6.8UH		R004	1-247-871-00	CARBON 47K 5% 1/6W	
L306	1-408-607-00	MICRO INDUCTOR 22UH		R006	1-246-495-00	CARBON 8.2K 5% 1/4W	
L307	1-408-604-00	MICRO INDUCTOR 12UH		R007	1-246-481-00	CARBON 2.2K 5% 1/4W	
L308	1-408-520-00	COIL, VARIABLE 15MMH		R012	1-247-871-00	CARBON 47K 5% 1/6W	
L309	1-408-520-00	COIL, VARIABLE 15MMH		R013	1-247-879-00	CARBON 100K 5% 1/6W	
<u>CONNECTOR</u>				R018	1-247-839-00	CARBON 2.2K 5% 1/6W	
M1	●:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P		R019	1-247-871-00	CARBON 47K 5% 1/6W	
M2	●:1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		R021	1-247-831-00	CARBON 1K 5% 1/6W	
M3	●:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R022	1-246-469-00	CARBON 680 5% 1/4W	
M7	●:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R023	1-247-831-00	CARBON 1K 5% 1/6W	
M12	●:1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)		R024	1-247-879-00	CARBON 100K 5% 1/6W	
<u>TRANSISTOR</u>				R025	1-247-879-00	CARBON 100K 5% 1/6W	
Q001	8-729-117-54	TRANSISTOR 2SA1175		R033	1-247-855-00	CARBON 10K 5% 1/6W	
Q006	8-729-117-54	TRANSISTOR 2SA1175		R039	1-247-863-00	CARBON 22K 5% 1/6W	
Q007	8-729-117-54	TRANSISTOR 2SA1175		R041	1-247-815-00	CARBON 220 5% 1/6W	
Q014	=>8-769-200-20	TRANSISTOR 2SK107-2		R042	1-247-879-00	CARBON 100K 5% 1/6W	
Q020	8-729-178-54	TRANSISTOR 2SC2785		R045	1-246-513-00	CARBON 47K 5% 1/4W	
Q101	8-729-178-54	TRANSISTOR 2SC2785		R048	1-247-831-00	CARBON 1K 5% 1/6W	
Q107	8-729-178-54	TRANSISTOR 2SC2785		R050	1-247-839-00	CARBON 2.2K 5% 1/6W	
Q108	8-729-178-54	TRANSISTOR 2SC2785		R055	1-247-855-00	CARBON 10K 5% 1/6W	

Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
R056	1-247-831-00	CARBON	1K	5%	1/6W	R138	1-247-847-00	CARBON	4.7K	5%	1/6W
R057	1-247-893-00	CARBON	390K	5%	1/6W	R140	1-247-847-00	CARBON	4.7K	5%	1/6W
R058	1-247-855-00	CARBON	10K	5%	1/6W	R141	1-247-827-00	CARBON	680	5%	1/6W
R059	1-246-481-00	CARBON	2.2K	5%	1/4W	R142	1-247-871-00	CARBON	47K	5%	1/6W
R061	1-247-833-00	CARBON	1.2K	5%	1/6W	R143	1-246-513-00	CARBON	47K	5%	1/4W
R063	1-247-867-00	CARBON	33K	5%	1/6W	R144	1-247-871-00	CARBON	47K	5%	1/6W
R064	1-246-465-00	CARBON	470	5%	1/4W	R145	1-247-871-00	CARBON	47K	5%	1/6W
R067	1-247-833-00	CARBON	1.2K	5%	1/6W	R151	1-247-831-00	CARBON	1K	5%	1/6W
R071	1-247-851-00	CARBON	6.8K	5%	1/6W	R152	1-247-850-00	CARBON	6.2K	5%	1/6W
R073	1-247-831-00	CARBON	1K	5%	1/6W	R153	1-247-811-00	CARBON	150	5%	1/6W
R074	1-247-831-00	CARBON	1K	5%	1/6W	R154	1-247-855-00	CARBON	10K	5%	1/6W
R077	1-247-871-00	CARBON	47K	5%	1/6W	R155	1-247-879-00	CARBON	100K	5%	1/6W
R078	1-202-735-00	COMPOSITION	22M	10%	1/2W	R156	1-247-831-00	CARBON	1K	5%	1/6W
R079	1-202-735-00	COMPOSITION	22M	10%	1/2W	R157	1-247-807-00	CARBON	100	5%	1/6W
R080	1-202-723-00	COMPOSITION	2.2M	10%	1/2W	R158	1-247-005-00	CARBON	100	5%	1/4W F
R081	1-247-831-00	CARBON	1K	5%	1/6W	R159	1-247-883-00	CARBON	150K	5%	1/6W
R082	1-247-895-00	CARBON	470K	5%	1/6W	R160	1-247-871-00	CARBON	47K	5%	1/6W
R083	1-246-473-00	CARBON	1K	5%	1/4W	R161	1-247-807-00	CARBON	100	5%	1/6W
R084	1-246-473-00	CARBON	1K	5%	1/4W	R162	1-247-831-00	CARBON	1K	5%	1/6W
R085	1-246-473-00	CARBON	1K	5%	1/4W	R163	1-247-879-00	CARBON	100K	5%	1/6W
R086	1-246-473-00	CARBON	1K	5%	1/4W	R164	1-247-855-00	CARBON	10K	5%	1/6W
R087	1-246-473-00	CARBON	1K	5%	1/4W	R165	1-247-850-00	CARBON	6.2K	5%	1/6W
R101	1-247-819-00	CARBON	330	5%	1/6W	R166	1-247-811-00	CARBON	150	5%	1/6W
R102	1-247-857-00	CARBON	12K	5%	1/6W	R167	1-247-879-00	CARBON	100K	5%	1/6W
R105	1-247-821-00	CARBON	390	5%	1/6W	R168	1-247-861-00	CARBON	18K	5%	1/6W
R106	1-247-831-00	CARBON	1K	5%	1/6W	R169	1-247-863-00	CARBON	22K	5%	1/6W
R107	1-247-817-00	CARBON	270	5%	1/6W	R170	1-246-483-00	CARBON	2.7K	5%	1/4W
R108	1-247-847-00	CARBON	4.7K	5%	1/6W	R171	1-247-855-00	CARBON	10K	5%	1/6W
R109	1-247-873-00	CARBON	56K	5%	1/6W	R172	1-247-855-00	CARBON	10K	5%	1/6W
R110	1-247-849-00	CARBON	5.6K	5%	1/6W	R173	1-247-841-00	CARBON	2.7K	5%	1/6W
R111	1-247-851-00	CARBON	6.8K	5%	1/6W	R174	1-247-839-00	CARBON	2.2K	5%	1/6W
R112	1-247-823-00	CARBON	470	5%	1/6W	R175	1-247-879-00	CARBON	100K	5%	1/6W
R113	1-247-875-00	CARBON	68K	5%	1/6W	R176	1-247-877-00	CARBON	82K	5%	1/6W
R114	1-214-717-00	METAL	330	1%	1/4W	R177	1-247-848-00	CARBON	5.1K	5%	1/6W
R115	1-214-958-00	METAL	560K	1%	1/4W	R179	1-247-876-00	CARBON	75K	5%	1/6W
R116	1-247-875-00	CARBON	68K	5%	1/6W	R180	1-247-855-00	CARBON	10K	5%	1/6W
R117	1-247-843-00	CARBON	3.3K	5%	1/6W	R181	1-247-869-00	CARBON	39K	5%	1/6W
R118	1-247-879-00	CARBON	100K	5%	1/6W	R182	1-247-857-00	CARBON	12K	5%	1/6W
R119	1-214-957-00	METAL	510K	1%	1/4W	R183	1-247-838-00	CARBON	2K	5%	1/6W
R120	1-214-716-00	METAL	300	1%	1/4W	R184	1-247-895-00	CARBON	470K	5%	1/6W
R121	1-247-874-00	CARBON	62K	5%	1/6W	R185	1-247-855-00	CARBON	10K	5%	1/6W
R122	1-247-887-00	CARBON	220K	5%	1/6W	R186	1-247-855-00	CARBON	10K	5%	1/6W
R124	1-247-849-00	CARBON	5.6K	5%	1/6W	R187	1-247-831-00	CARBON	1K	5%	1/6W
R126	1-247-835-00	CARBON	1.5K	5%	1/6W	R188	1-247-831-00	CARBON	1K	5%	1/6W
R127	1-247-831-00	CARBON	1K	5%	1/6W	R191	1-247-831-00	CARBON	1K	5%	1/6W
R128	1-247-859-00	CARBON	15K	5%	1/6W	R192	1-247-879-00	CARBON	100K	5%	1/6W
R129	1-247-859-00	CARBON	15K	5%	1/6W	R202	1-247-891-00	CARBON	330K	5%	1/6W
R130	1-247-859-00	CARBON	15K	5%	1/6W	R203	1-247-843-00	CARBON	3.3K	5%	1/6W
R131	1-247-859-00	CARBON	15K	5%	1/6W	R204	1-247-839-00	CARBON	2.2K	5%	1/6W
R132	1-247-831-00	CARBON	1K	5%	1/6W	R205	1-247-839-00	CARBON	2.2K	5%	1/6W
R133	1-214-777-00	METAL	100K	1%	1/4W	R207	1-247-847-00	CARBON	4.7K	5%	1/6W
R134	1-214-777-00	METAL	100K	1%	1/4W	R208	1-247-845-00	CARBON	3.9K	5%	1/6W
R136	1-247-831-00	CARBON	1K	5%	1/6W	R209	1-247-827-00	CARBON	680	5%	1/6W

When indicating parts by reference number, please include the board name.

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R210	1-247-815-00	CARBON	220 5% 1/6W	R327	1-247-855-00	CARBON	10K 5% 1/6W
R212	1-247-837-00	CARBON	1.8K 5% 1/6W	R328	1-247-863-00	CARBON	22K 5% 1/6W
R213	1-247-839-00	CARBON	2.2K 5% 1/6W	R329	1-247-807-00	CARBON	100 5% 1/6W
R214	1-247-843-00	CARBON	3.3K 5% 1/6W	R331	1-247-887-00	CARBON	220K 5% 1/6W
R215	1-247-849-00	CARBON	5.6K 5% 1/6W	R332	1-247-839-00	CARBON	2.2K 5% 1/6W
R216	1-247-831-00	CARBON	1K 5% 1/6W	R333	1-247-851-00	CARBON	6.8K 5% 1/6W
R217	1-247-819-00	CARBON	330 5% 1/6W	R334	1-247-877-00	CARBON	82K 5% 1/6W
R218	1-247-901-00	CARBON	820K 5% 1/6W	R335	1-247-857-00	CARBON	12K 5% 1/6W
R219	1-247-831-00	CARBON	1K 5% 1/6W	R336	1-247-853-00	CARBON	8.2K 5% 1/6W
R223	1-247-867-00	CARBON	33K 5% 1/6W	R337	1-247-831-00	CARBON	1K 5% 1/6W
R224	1-247-877-00	CARBON	82K 5% 1/6W	R338	1-247-843-00	CARBON	3.3K 5% 1/6W
R230	1-247-839-00	CARBON	2.2K 5% 1/6W	R339	1-247-823-00	CARBON	470 5% 1/6W
R231	1-247-819-00	CARBON	330 5% 1/6W	R340	1-247-831-00	CARBON	1K 5% 1/6W
R233	1-247-831-00	CARBON	1K 5% 1/6W	R341	1-247-845-00	CARBON	3.9K 5% 1/6W
R234	1-247-817-00	CARBON	270 5% 1/6W	R342	1-247-823-00	CARBON	470 5% 1/6W
R235	1-247-821-00	CARBON	390 5% 1/6W	R343	1-247-817-00	CARBON	270 5% 1/6W
R246	1-247-885-00	CARBON	180K 5% 1/6W	R344	1-247-837-00	CARBON	1.8K 5% 1/6W
R248	1-247-867-00	CARBON	33K 5% 1/6W	R345	1-247-831-00	CARBON	1K 5% 1/6W
R251	1-247-879-00	CARBON	100K 5% 1/6W	R347	1-246-489-00	CARBON	4.7K 5% 1/4W
R252	1-247-879-00	CARBON	100K 5% 1/6W	R348	1-247-847-00	CARBON	4.7K 5% 1/6W
R253	1-247-855-00	CARBON	10K 5% 1/6W	R349	1-247-831-00	CARBON	1K 5% 1/6W
R254	1-247-855-00	CARBON	10K 5% 1/6W	R350	1-247-829-00	CARBON	820 5% 1/6W
R256	1-247-855-00	CARBON	10K 5% 1/6W	R351	1-247-831-00	CARBON	1K 5% 1/6W
R259	1-247-831-00	CARBON	1K 5% 1/6W	R352	1-247-855-00	CARBON	10K 5% 1/6W
R260	1-247-831-00	CARBON	1K 5% 1/6W	R353	1-247-853-00	CARBON	8.2K 5% 1/6W
R261	1-211-417-00	CARBON	22 5% 1/8W F	R354	1-247-807-00	CARBON	100 5% 1/6W
R280	1-247-855-00	CARBON	10K 5% 1/6W	R355	1-247-815-00	CARBON	220 5% 1/6W
R282	1-247-835-00	CARBON	1.5K 5% 1/6W	R356	1-247-815-00	CARBON	220 5% 1/6W
R284	1-247-823-00	CARBON	470 5% 1/6W	R357	1-247-825-00	CARBON	560 5% 1/6W
R285	1-247-791-00	CARBON	22 5% 1/6W	R358	1-247-827-00	CARBON	680 5% 1/6W
R291	1-246-457-00	CARBON	220 5% 1/4W	R359	1-247-865-00	CARBON	27K 5% 1/6W
R302	1-247-818-00	CARBON	300 5% 1/6W	R360	1-247-865-00	CARBON	27K 5% 1/6W
R303	1-247-825-00	CARBON	560 5% 1/6W	R361	1-247-839-00	CARBON	2.2K 5% 1/6W
R304	1-247-839-00	CARBON	2.2K 5% 1/6W	R362	1-247-829-00	CARBON	820 5% 1/6W
R306	1-247-821-00	CARBON	390 5% 1/6W	R363	1-247-831-00	CARBON	1K 5% 1/6W
R307	1-247-831-00	CARBON	1K 5% 1/6W	R364	1-246-457-00	CARBON	220 5% 1/4W
R308	1-247-831-00	CARBON	1K 5% 1/6W	R365	1-247-843-00	CARBON	3.3K 5% 1/6W
R309	1-247-859-00	CARBON	15K 5% 1/6W	R366	1-246-457-00	CARBON	220 5% 1/4W
R310	1-247-835-00	CARBON	1.5K 5% 1/6W	R367	1-247-843-00	CARBON	3.3K 5% 1/6W
R311	1-247-831-00	CARBON	1K 5% 1/6W	R368	1-246-457-00	CARBON	220 5% 1/4W
R312	1-247-835-00	CARBON	1.5K 5% 1/6W	R369	1-247-843-00	CARBON	3.3K 5% 1/6W
R313	1-247-835-00	CARBON	1.5K 5% 1/6W	R370	1-247-807-00	CARBON	100 5% 1/6W
R314	1-247-825-00	CARBON	560 5% 1/6W	R371	1-247-807-00	CARBON	100 5% 1/6W
R315	1-247-831-00	CARBON	1K 5% 1/6W	R373	1-246-521-00	CARBON	100K 5% 1/4W
R316	1-247-871-00	CARBON	47K 5% 1/6W	R374	1-247-847-00	CARBON	4.7K 5% 1/6W
R317	1-247-895-00	CARBON	470K 5% 1/6W	R375	1-247-831-00	CARBON	1K 5% 1/6W
R318	1-247-843-00	CARBON	3.3K 5% 1/6W	R376	1-246-477-00	CARBON	1.5K 5% 1/4W
R319	1-247-823-00	CARBON	470 5% 1/6W	R377	1-247-861-00	CARBON	18K 5% 1/6W
R320	1-247-853-00	CARBON	8.2K 5% 1/6W	R378	1-247-869-00	CARBON	39K 5% 1/6W
R322	1-247-830-00	CARBON	910 5% 1/6W	R379	1-247-853-00	CARBON	8.2K 5% 1/6W
R324	1-246-465-00	CARBON	470 5% 1/4W	R387	1-247-807-00	CARBON	100 5% 1/6W
R325	1-247-863-00	CARBON	22K 5% 1/6W	R388	1-247-855-00	CARBON	10K 5% 1/6W
R326	1-247-857-00	CARBON	12K 5% 1/6W	R389	1-247-819-00	CARBON	330 5% 1/6W

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R390	1-247-819-00	CARBON 330 5% 1/6W		C703	1-161-318-00	CERAMIC 390PF 10% 50V	
R391	1-247-851-00	CARBON 6.8K 5% 1/6W		C704	1-129-779-00	FILM 0.022MF 20% 1KV	
R392	1-247-865-00	CARBON 27K 5% 1/6W		C705	1-102-249-00	CERAMIC 680PF 20% 2KV	
R393	1-247-833-00	CARBON 1.2K 5% 1/6W		C706	1-123-383-00	ELECT 4.7MF 20% 100V	
R394	1-247-855-00	CARBON 10K 5% 1/6W		C715	1-102-095-00	CERAMIC 330PF 20% 1KV	
R395	1-246-509-00	CARBON 33K 5% 1/4W		C751	1-161-323-00	CERAMIC 0.001MF 10% 50V	
R396	1-247-855-00	CARBON 10K 5% 1/6W		C752	1-161-323-00	CERAMIC 0.001MF 10% 50V	
R397	1-247-831-00	CARBON 1K 5% 1/6W		C753	1-161-317-00	CERAMIC 330PF 10% 50V	
<u>VARIABLE RESISTOR</u>				C754	1-161-323-00	CERAMIC 0.001MF 10% 50V	
RV101	1-226-849-00	RES, ADJ, CARBON 3.3K		C755	1-161-323-00	CERAMIC 0.001MF 10% 50V	
RV201	1-226-852-00	RES, ADJ, CARBON 22K		C756	1-161-268-00	CERAMIC 56PF 5% 50V	
RV203	1-226-853-00	RES, ADJ, CARBON 47K		C757	1-102-212-00	CERAMIC 820PF 10% 500V	
RV301	1-226-851-00	RES, ADJ, CARBON 10K		C758	1-102-212-00	CERAMIC 820PF 10% 500V	
RV302	1-226-850-00	RES, ADJ, CARBON 4.7K		C759	1-108-437-00	MYLAR 0.22MF 10% 200V	
RV303	1-226-846-00	RES, ADJ, CARBON 470		C760	1-101-006-00	CERAMIC 0.047MF 50V	
RV304	1-226-847-00	RES, ADJ, CARBON 1K		C761	1-123-356-00	ELECT 10MF 20% 16V	
RV305	1-226-850-00	RES, ADJ, CARBON 4.7K		<u>CONNECTOR</u>			
RV306	1-226-709-00	RES, ADJ, SOLID 4.7K		D6	1-555-852-00	CONNECTOR ASSY, MINIATURE 6P	
<u>FILTER</u>				<u>DIODE</u>			
SF201	1-404-382-00	SAWF		D751	8-719-911-19	DIODE 1SS119	
▲:4-336-029-00	PLATE, SHIELD, SF201			D752	8-719-911-19	DIODE 1SS119	
SF202	1-404-332-00	SAWF (38.9MHZ)		<u>COIL</u>			
▲:4-336-029-00	PLATE, SHIELD, SF202			L701	1-407-171-XX	MICRO INDUCTOR 150UH	
<u>TRANSFORMER</u>				L702	1-408-680-00	COIL (CHOKE, SP00K) 12UH	
T302	1-404-081-00	TRANSFORMER, DELAY ADJUST, DAT		L751	1-407-708-00	MICRO INDUCTOR 180UH	
<u>THERMISTOR</u>				L752	1-407-708-00	MICRO INDUCTOR 180UH	
TH301	1-800-626-00	THERMISTOR, S-1.5K		L753	1-407-717-00	MICRO INDUCTOR 1MMH	
<u>TUNER</u>				<u>NEON LAMP</u>			
TU201▲	1-463-350-31	TUNER, ET (BT-881)		NL701	1-519-108-XX	LAMP, NEON ASSY	
<u>CRYSTAL</u>				NL702	1-519-013-13	DISCHARGE TUBE	
X301	1-527-345-00	CRYSTAL, OSC, 4.43MHZ		NL703	1-519-013-13	DISCHARGE TUBE	

▲:A-1330-389-A	C BOARD, COMPLETE			<u>TRANSISTOR</u>			
▲:1-607-039-12	C BOARD			Q701	8-729-322-78	TRANSISTOR 2SC2278	
1-526-560-00	SOCKET ASSY, CRT			Q702	8-729-322-78	TRANSISTOR 2SC2278	
<u>CONNECTOR</u>				Q703	8-729-322-78	TRANSISTOR 2SC2278	
A5	▲:1-556-323-00	CONNECTOR ASSY (2.5MM) 6P		Q751	8-729-178-54	TRANSISTOR 2SC2785	
C1	▲:1-508-765-00	3P PLUG (M)		Q752	8-729-117-54	TRANSISTOR 2SA1175	
<u>CAPACITOR</u>				Q753	8-729-117-54	TRANSISTOR 2SA1175	
C701	1-161-318-00	CERAMIC 390PF 10% 50V		Q754	8-729-326-10	TRANSISTOR 2SC2610BK	
C702	1-161-317-00	CERAMIC 330PF 10% 50V		Q755	8-729-326-10	TRANSISTOR 2SC2610BK	
<u>RESISTOR</u>				<u>RESISTOR</u>			
R701	1-246-449-00	CARBON 100 5% 1/4W		R701	1-246-449-00	CARBON 100 5% 1/4W	
R702	1-246-449-00	CARBON 100 5% 1/4W		R702	1-246-449-00	CARBON 100 5% 1/4W	
R703	1-246-449-00	CARBON 100 5% 1/4W		R703	1-246-449-00	CARBON 100 5% 1/4W	
R704	1-246-457-00	CARBON 220 5% 1/4W		R704	1-246-457-00	CARBON 220 5% 1/4W	
R705	1-246-457-00	CARBON 220 5% 1/4W		R705	1-246-457-00	CARBON 220 5% 1/4W	

When indicating parts by reference number, please include the board name.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

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When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C556	1-123-380-00	ELECT	1MF	20%	50V	D2	▲:1-560-123-00 PLUG, CONNECTOR (2.5MM) 3P
C557	1-108-375-00	MYLAR	0.0068MF	10%	100V	D3	▲:1-560-123-00 PLUG, CONNECTOR (2.5MM) 3P
C558	1-108-637-00	MYLAR	0.082MF	10%	100V	D5	▲:1-508-768-00 6P PLUG
C559	1-108-382-00	MYLAR	0.027MF	10%	100V	D6	▲:1-508-768-00 6P PLUG
C560	1-102-244-00	CERAMIC	220PF	10%	500V	D7	▲:1-508-766-00 4P PLUG (M)
C561	1-108-377-00	MYLAR	0.01MF	10%	100V	D8	▲:1-508-786-00 2P PLUG (M)
C562	1-108-381-00	MYLAR	0.022MF	10%	100V	D14	▲:1-508-784-00 1P PLUG
C563	1-108-377-00	MYLAR	0.01MF	10%	100V	D15	▲:1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH)
C564	1-108-377-00	MYLAR	0.01MF	10%	100V		
C565	1-123-333-00	ELECT	100MF	20%	25V		
C569	1-106-188-00	MYLAR	0.0047MF	5%	100V		
C570	1-129-701-00	FILM	0.01MF	5%	100V		
C571	1-123-357-00	ELECT	22MF	20%	50V		
C574	1-123-332-00	ELECT	47MF	20%	25V		
C575	1-123-380-00	ELECT	1MF	20%	50V		
C578	1-123-380-00	ELECT	1MF	20%	50V		
C803	1-108-383-00	MYLAR	0.033MF	10%	100V		
C804	1-123-263-00	ELECT	33MF				
C805	1-102-228-00	CERAMIC	470PF	10%	500V		
C806	1-101-810-00	CERAMIC	100PF	5%	500V		
C807	1-123-322-00	ELECT	330MF	20%	16V		
C808	1-123-333-00	ELECT	100MF	20%	16V		
C809	1-123-333-00	ELECT	100MF	20%	16V		
C810	▲:1-130-894-00	FILM	0.022MF	3%	1.2KV		
C811	▲:1-129-722-00	FILM	0.047MF	10%	630V		
C812	▲:1-129-711-51	FILM	0.0056MF	10%	630V		
C813	1-129-704-00	FILM	0.0015MF	10%	630V		
C814	1-130-547-00	FILM	1.5MF	5%	200V		
C815	1-108-377-00	MYLAR	0.01MF	10%	100V		
C816	1-130-547-00	FILM	1.5MF	5%	200V		
C817	1-102-154-00	CERAMIC	180PF	20%	2KV		
C818	1-123-005-00	ELECT	22MF		250V		
C819	1-108-425-00	MYLAR	0.022MF	10%	200V		
C820	1-130-228-00	FILM	0.011MF	3%	1.2KV		
C821	1-161-754-00	CERAMIC	0.001MF	10%	3KV		
C822	1-108-383-00	MYLAR	0.033MF	10%	100V		
C823	1-108-376-00	MYLAR	0.0082MF	10%	100V		
C824	1-108-430-00	MYLAR	0.056MF	10%	200V		
C826	1-102-233-00	CERAMIC	33PF	10%	500V		
C827	1-130-162-00	FILM	0.33MF	5%	200V		
C851	1-108-389-00	MYLAR	0.1MF	10%	100V		
C852	1-102-030-00	CERAMIC	330PF	10%	500V		
C853	1-123-362-00	ELECT	330MF	20%	50V		
C854	1-102-030-00	CERAMIC	330PF	10%	500V		
C855	1-123-334-00	ELECT	220MF	20%	25V		
C856	1-123-308-00	ELECT	220MF	20%	10V		
C857	1-123-356-00	ELECT	10MF	20%	50V		
C858	1-102-038-00	CERAMIC	0.001MF		500V		
C859	1-102-228-00	CERAMIC	470PF	10%	500V		
C556A	1-123-381-00	ELECT	2.2MF	20%	50V		
CONNECTOR				DIODE			
D1	▲:1-508-766-00	4P PLUG (M)		D501	8-719-102-74	DIODE RD6.2E-N2	
				D502	8-719-911-19	DIODE 1SS119	
				D503	=>8-719-924-06	DIODE ERC24-06S	
				D504	=>8-719-924-06	DIODE ERC24-06S	
				D505	8-719-911-19	DIODE 1SS119	
				D506	=>8-719-924-06	DIODE ERC24-06S	
				D507	8-719-911-19	DIODE 1SS119	
				D508	8-719-102-74	DIODE RD6.2E-N2	
				D551	8-719-911-19	DIODE 1SS119	
				D801	=>8-719-305-15	DIODE GH3F	
				D802	=>8-719-305-15	DIODE GH3F	
				D803	8-719-900-26	DIODE ERD29-08J	
				D804	=>8-719-924-06	DIODE ERC24-06S	
				D805	=>8-719-924-06	DIODE ERC24-06S	
				D806	=>8-719-924-06	DIODE ERC24-06S	
				D851	=>8-719-924-06	DIODE ERC24-06S	
				D852	=>8-719-924-06	DIODE ERC24-06S	
				D853	=>8-719-924-06	DIODE ERC24-06S	
				D854	=>8-719-924-06	DIODE ERC24-06S	
				D855	8-719-903-09	DIODE V30N	
				D856	8-719-931-05	DIODE EQB01-05	
				CONNECTOR			
				DY1	▲:1-508-765-00	3P PLUG (M)	
				DY2	▲:1-508-765-00	3P PLUG (M)	
				IC			
				IC501	8-759-100-60	IC UPC1377C	
				IC551	8-759-905-39	IC TDA1082	
				COIL			
				L501	1-459-105-21	COIL(WITH CORE) 2.7MMH	
				L502	1-459-338-00	COIL, VAR, FERRITE (PAC)	
				L551	1-407-509-00	MICRO INDUCTOR 27MMH	
				L552	1-407-509-00	MICRO INDUCTOR 27MMH	
				L553	1-408-242-00	MICRO INDUCTOR 10MMH	
				L554	1-408-247-00	MICRO INDUCTOR 33MMH	
				L801	1-459-215-00	CORE COIL 120UH	
				L804	1-407-703-00	MICRO INDUCTOR 68UH	
				L806	1-407-365-00	COIL, CHOKE 0.7UH	
				L809	1-459-111-00	COIL, DRAM CORE (CDI) 10MMH	
				L810	1-408-225-00	MICRO INDUCTOR 3.3UH	

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
L811	1-459-224-00	HLC		R527	1-212-361-00	METAL	1.2 5% 1W F
L812	1-459-263-21	COIL, MODULATION, PMC		R528	1-244-869-51	CARBON	680 5% 1/2W
L813	1-459-104-00	COIL, DUST CORE 10MMH		R529	1-246-497-00	CARBON	10K 5% 1/4W
L815	1-408-241-00	MICRO INDUCTOR 8.2MMH		R530	1-213-146-00	METAL	1.8K 5% 1W F
L816	1-408-300-00	MICRO INDUCTOR 6.8UH		R531	1-246-497-00	CARBON	10K 5% 1/4W
L851	1-407-712-00	MICRO INDUCTOR 390UH		R532	1-246-481-00	CARBON	2.2K 5% 1/4W
TRANSISTOR				R533	1-212-365-00	METAL	2.7 5% 1W F
Q501	=>8-729-177-43	TRANSISTOR 2SD774		R534	1-246-515-00	CARBON	56K 5% 1/4W
Q502	8-729-195-82	TRANSISTOR 2SC2958		R535	1-246-467-00	CARBON	560 5% 1/4W
Q503	8-729-122-02	TRANSISTOR 2SA1220A		R537	1-246-501-00	CARBON	15K 5% 1/4W
▲:4-342-076-00	HEAT SINK, V.OUT, Q503			R538	1-246-504-00	CARBON	20K 5% 1/4W
Q504	=>8-729-169-02	TRANSISTOR 2SC2690A		R539	1-213-139-00	METAL	470 5% 1W F
▲:4-342-076-00	HEAT SINK, V.OUT, Q504			R540	1-246-487-00	CARBON	3.9K 5% 1/4W
Q505	8-729-103-43	TRANSISTOR 2SB734		R541	1-246-489-00	CARBON	4.7K 5% 1/4W
Q506	8-729-177-43	TRANSISTOR 2SD774		R542	1-213-140-00	METAL	560 5% 1W F
Q551	8-729-374-02	TRANSISTOR 2SB740		R543	1-206-640-00	METAL	100 5% 2W F
Q552	8-729-195-82	TRANSISTOR 2SC2958		R544	1-246-496-00	CARBON	9.1K 5% 1/4W
Q571	8-729-178-54	TRANSISTOR 2SC2785		R545	1-244-883-51	CARBON	2.7K 5% 1/2W
Q801	8-729-168-82	TRANSISTOR 2SC2688		R546	1-246-519-00	CARBON	82K 5% 1/4W
Q802	8-726-420-00	THYRISTOR SG264A		R547	1-246-496-00	CARBON	9.1K 5% 1/4W
Q803	8-729-372-53	TRANSISTOR 2SD725		R548	1-246-497-00	CARBON	10K 5% 1/4W
▲:4-314-938-01	RETAINER (TO-3), TRANSISTOR, Q803			R549	1-246-459-00	CARBON	270 5% 1/4W
Q805	8-729-177-43	TRANSISTOR 2SD774		R550	1-213-135-00	METAL	220 5% 1W F
Q806	8-729-103-43	TRANSISTOR 2SB734		R551	1-246-429-00	CARBON	15 5% 1/4W
Q807	8-729-178-54	TRANSISTOR 2SC2785		R552	1-246-497-00	CARBON	10K 5% 1/4W
RESISTOR				R553	1-206-642-00	METAL	120 5% 2W F
R501	1-246-517-00	CARBON	68K 5% 1/4W	R554	1-246-507-00	CARBON	27K 5% 1/4W
R502	1-206-694-00	METAL	18K 5% 2W F	R555	1-246-497-00	CARBON	10K 5% 1/4W
R503	1-246-461-00	CARBON	330 5% 1/4W	R556	1-213-124-00	METAL	27 5% 1W F
R504	1-246-497-00	CARBON	10K 5% 1/4W	R557	1-244-875-51	CARBON	1.2K 5% 1/2W
R505	1-246-513-00	CARBON	47K 5% 1/4W	R558	1-246-467-00	CARBON	560 5% 1/4W
R506	1-246-485-00	CARBON	3.3K 5% 1/4W	R559	1-246-461-00	CARBON	330 5% 1/4W
R507	1-246-510-00	CARBON	36K 5% 1/4W	R560	1-246-451-00	CARBON	120 5% 1/4W
R508	1-246-497-00	CARBON	10K 5% 1/4W	R561	1-246-531-00	CARBON	270K 5% 1/4W
R509	1-246-497-00	CARBON	10K 5% 1/4W	R562	1-246-455-00	CARBON	180 5% 1/4W
R510	1-246-503-00	CARBON	18K 5% 1/4W	R563	1-246-487-00	CARBON	3.9K 5% 1/4W
R511	1-246-501-00	CARBON	15K 5% 1/4W	R564	1-246-503-00	CARBON	18K 5% 1/4W
R512	1-246-451-00	CARBON	120 5% 1/4W	R565	1-246-503-00	CARBON	18K 5% 1/4W
R514	1-246-461-00	CARBON	330 5% 1/4W	R566	1-246-484-00	CARBON	3K 5% 1/4W
R515	1-214-769-00	METAL	47K 1% 1/4W	R567	1-246-519-00	CARBON	82K 5% 1/4W
R516	1-246-475-00	CARBON	1.2K 5% 1/4W	R568	1-246-503-00	CARBON	18K 5% 1/4W
R517	1-246-463-00	CARBON	390 5% 1/4W	R571	1-246-487-00	CARBON	3.9K 5% 1/4W
R518	1-246-515-00	CARBON	56K 5% 1/4W	R572	1-246-495-00	CARBON	8.2K 5% 1/4W
R519	1-246-495-00	CARBON	8.2K 5% 1/4W	R573	1-246-473-00	CARBON	1K 5% 1/4W
R520	1-211-409-00	CARBON	10 5% 1/4W F	R574	1-246-457-00	CARBON	220 5% 1/4W
R521	1-217-399-00	FUSIBLE	100 5% 1/4W F	R575	1-246-511-00	CARBON	39K 5% 1/4W
R522	1-211-930-00	CARBON	33 5% 1/8W F	R576	1-246-507-00	CARBON	27K 5% 1/4W
R523	1-213-144-00	METAL	1.2K 5% 1W F	R577	1-246-473-00	CARBON	1K 5% 1/4W
R524	1-247-003-00	CARBON	39 5% 1/4W F	R578	1-246-473-00	CARBON	1K 5% 1/4W
R525	1-246-503-00	CARBON	18K 5% 1/4W	R579	1-246-521-00	CARBON	100K 5% 1/4W
R526	1-212-361-00	METAL	1.2 5% 1W F	R581	1-246-545-00	CARBON	1M 5% 1/4W
				R582	1-246-489-00	CARBON	4.7K 5% 1/4W
				R583	1-246-487-00	CARBON	3.9K 5% 1/4W

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark
R584	1-247-683-00	CARBON 100 5% 1/2W	F
R585	1-246-527-00	CARBON 180K 5% 1/4W	
R801	1-246-535-00	CARBON 390K 5% 1/4W	
R802	1-246-489-00	CARBON 4.7K 5% 1/4W	
R803	1-206-741-00	METAL 4.7K 5% 3W	F
R803A	1-206-694-00	METAL 18.00K	
R804	1-206-741-00	METAL 4.7K 5% 3W	F
R806	1-246-521-00	CARBON 100K 5% 1/4W	
R807	1-244-923-51	CARBON 120K 5% 1/2W	
R808	1-212-849-00	FUSIBLE 4.7 5% 1/4W	F
R809	1-246-979-00	CARBON 1.2 5% 1/8W	F
R810	1-212-849-00	FUSIBLE 4.7 5% 1/4W	F
R811	1-246-445-00	CARBON 68 5% 1/4W	
R813	1-206-658-00	METAL 560 5% 2W	F
R814	1-202-719-00	COMPOSITION 1M 10% 1/2W	
R815	1-213-147-00	METAL 2.2K 5% 1W	F
R816	1-206-463-00	METAL 10 5% 2W	F
R818	1-246-491-00	CARBON 5.6K 5% 1/4W	
R820	1-246-509-00	CARBON 33K 5% 1/4W	
R821	1-246-487-00	CARBON 3.9K 5% 1/4W	
R822	1-213-131-00	METAL 100 5% 1W	F
R823	1-246-481-00	CARBON 2.2K 5% 1/4W	
R824	1-246-455-00	CARBON 180 5% 1/4W	
R851	1-246-997-00	CARBON 1.2 5% 1/4W	F
R852	1-217-371-00	FUSIBLE 0.47 10% 1/4W	F
R853	1-207-473-00	WIREWOUND 6.8 10% 1/2W	
R855	1-202-830-00	COMPOSITION 10K 1/2W	
R856	1-244-889-51	CARBON 4.7K 5% 1/2W	
R857	1-202-838-00	COMPOSITION 100K 1/2W	

VARIABLE RESISTOR

RV501	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K
RV502	1-226-851-00	RES, ADJ, CARBON 10K
RV503	1-228-577-00	RES, ADJ, CARBON 220
RV504	1-226-852-00	RES, ADJ, CARBON 22K
RV551	1-226-851-00	RES, ADJ, CARBON 10K
RV552	1-226-850-00	RES, ADJ, CARBON 4.7K
RV553	1-226-846-00	RES, ADJ, CARBON 470
RV555	1-226-845-00	RES, ADJ, CARBON 330
RV556	1-226-848-00	RES, ADJ, CARBON 2.2K
RV557	1-226-851-00	RES, ADJ, CARBON 10K
RV571	1-226-854-00	RES, ADJ, CARBON 100K
RV801	1-226-847-00	RES, ADJ, CARBON 1K

SPARK GAP

SG801	1-519-063-XX	DISCHARGING GAP
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TRANSFORMER

T501	1-421-245-11	TRANSFORMER, PIN CUSHION, V PCT
T801	1-437-079-00	TRANSFORMER, HPRIZONTAL DRIVE, HDT
T802	1-439-289-00	TRANSFORMER ASSY, FLYBACK
T803	1-421-354-00	TRANSFORMER, FERRITE (P.H.T)
T804	1-413-059-00	TRANSFORMER, FERRITE (DFT)

Ref.No.	Part No.	Description	Remark
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THERMISTOR

TH502	1-806-110-00	THERMISTOR, S-150
TH551	1-800-625-00	THERMISTOR, S-1250

•1-608-368-00 H1 BOARD

•4-356-317-00 HOLDER (A), LED

DIODE

D401	8-719-911-19	DIODE 1SS119
LED401	8-719-812-41	DIODE TLR124
LED402	8-719-812-41	DIODE TLR124
LED403	8-719-812-42	DIODE TLY124
LED404	8-719-812-43	DIODE TLG124A

RESISTOR

R401	1-247-845-00	CARBON 3.9K 5% 1/6W
R402	1-247-849-00	CARBON 5.6K 5% 1/6W
R403	1-247-879-00	CARBON 100K 5% 1/6W
R404	1-247-871-00	CARBON 47K 5% 1/6W
R405	1-247-893-00	CARBON 390K 5% 1/6W
R406	1-247-863-00	CARBON 22K 5% 1/6W
R407	1-247-841-00	CARBON 2.7K 5% 1/6W
R408	1-247-839-00	CARBON 2.2K 5% 1/6W
R409	1-247-839-00	CARBON 2.2K 5% 1/6W
R410	1-247-839-00	CARBON 2.2K 5% 1/6W
R411	1-247-839-00	CARBON 2.2K 5% 1/6W

VARIABLE RESISTOR

RV401	1-228-578-00	RES, VAR, CARBON 10K
RV402	1-228-578-00	RES, VAR, CARBON 10K
RV403	1-228-578-00	RES, VAR, CARBON 10K
RV404	1-228-578-00	RES, VAR, CARBON 10K
RV405	1-228-578-00	RES, VAR, CARBON 10K
RV406	1-228-578-00	RES, VAR, CARBON 10K
RV407	1-228-578-00	RES, VAR, CARBON 10K
RV408	1-228-578-00	RES, VAR, CARBON 10K

SWITCH

SW401	1-552-774-00	SWITCH, PUSH
SW402	1-554-118-00	SWITCH, PUSH
SW403	1-554-118-00	SWITCH, PUSH
SW404	1-552-774-00	SWITCH, PUSH
SW405	1-552-774-00	SWITCH, PUSH
SW406	1-552-774-00	SWITCH, PUSH
SW407	1-552-774-00	SWITCH, PUSH
SW408	1-552-774-00	SWITCH, PUSH
SW409	1-552-774-00	SWITCH, PUSH
SW410	1-552-774-00	SWITCH, PUSH
SW411	1-552-774-00	SWITCH, PUSH

When indicating parts by reference number, please include the board name.

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

H₁ H₂ J₂ J₁

Ref.No.	Part No.	Description	Remark
SW412	1-552-774-00	SWITCH, PUSH	
SW413	1-552-774-00	SWITCH, PUSH	

♣:1-608-369-00 H2 BOARD

♣:4-361-909-00 HOLDER, LED

DIODE

D451	8-719-911-19	DIODE 1SS119	
LED451	8-719-803-24	DIODE TLR324	
LED452	8-719-801-07	DIODE TLR107	
LED453	8-719-812-41	DIODE TLR124	
LED454	8-719-812-41	DIODE TLR124	

LED455 8-719-812-41 DIODE TLR124

IC

IC451 8-759-600-18 IC M54847P

♣:1-608-366-00 J2 BOARD

CAPACITOR

C971	1-101-003-00	CERAMIC	0.0047MF	50V
C972	1-101-003-00	CERAMIC	0.0047MF	50V

CONNECTOR

J9	♣:1-560-278-00	PLUG, CONNECTOR 4P	
J10	♣:1-560-278-00	PLUG, CONNECTOR 4P	

JACK

J971 1-507-657-00 JACK

RESISTOR

R971	1-244-865-00	CARBON	470	5%	1/2W
R972	1-244-865-00	CARBON	470	5%	1/2W

♣:1-608-367-00 J1 BOARD

CAPACITOR

C951	1-123-613-00	ELECT	3.3MF	20%	50V
C952	1-123-613-00	ELECT	3.3MF	20%	50V
C953	1-123-821-00	ELECT	47MF	20%	16V
C954	1-102-973-00	CERAMIC	100PF	5%	50V
C955	1-102-973-00	CERAMIC	100PF	5%	50V

Ref.No.	Part No.	Description	Remark
C956	1-102-973-00	CERAMIC 100PF	5% 50V
C957	1-102-973-00	CERAMIC 100PF	5% 50V
C958	1-101-004-00	CERAMIC 0.01MF	50V
C959	1-123-610-00	ELECT 0.47MF	20% 50V
C960	1-123-610-00	ELECT 0.47MF	20% 50V

C961	1-102-951-00	CERAMIC 15PF	5% 50V
C962	1-102-951-00	CERAMIC 15PF	5% 50V
C965	1-123-821-00	ELECT 47MF	20% 16V
C966	1-108-385-00	MYLAR 0.047MF	10% 100V
C967	1-108-385-00	MYLAR 0.047MF	10% 100V

C968	1-102-973-00	CERAMIC 100PF	5% 50V
C969	1-102-973-00	CERAMIC 100PF	5% 50V

CONNECTOR

J1	♣:1-560-278-00	PLUG, CONNECTOR 6P	
J2	♣:1-560-278-00	PLUG, CONNECTOR 3P	
J3	♣:1-560-721-21	PLUG, CONNECTOR 2P	
J4	♣:1-560-721-21	PLUG, CONNECTOR 2P	
J5	♣:1-560-278-00	PLUG, CONNECTOR 3P	

J6	♣:1-560-278-00	PLUG, CONNECTOR 4P	
J7	♣:1-560-278-00	PLUG, CONNECTOR 4P	
J8	♣:1-560-721-21	PLUG, CONNECTOR 2P	

JACK

J901	1-561-580-21	JACK, DIN 6P	
J902	1-562-119-00	CONNECTOR (REC P/B) 5P	
J908	1-526-728-00	SOCKET, SPEAKER (R)	
J909	1-526-728-00	SOCKET, SPEAKER (L)	

TRANSISTOR

Q951	8-729-178-54	TRANSISTOR 2SC2785	
Q952	8-729-178-54	TRANSISTOR 2SC2785	
Q953	8-729-178-54	TRANSISTOR 2SC2785	
Q954	8-729-178-54	TRANSISTOR 2SC2785	

RESISTOR

R951	1-247-895-00	CARBON	470K	5%	1/6W
R952	1-247-871-00	CARBON	47K	5%	1/6W
R953	1-247-871-00	CARBON	47K	5%	1/6W
R954	1-247-871-00	CARBON	47K	5%	1/6W
R955	1-247-847-00	CARBON	4.7K	5%	1/6W

R956	1-247-895-00	CARBON	470K	5%	1/6W
R957	1-247-871-00	CARBON	47K	5%	1/6W
R958	1-247-843-00	CARBON	3.3K	5%	1/6W
R959	1-247-885-00	CARBON	180K	5%	1/6W
R960	1-247-885-00	CARBON	180K	5%	1/6W

R961	1-247-871-00	CARBON	47K	5%	1/6W
R962	1-247-871-00	CARBON	47K	5%	1/6W
R963	1-247-831-00	CARBON	1K	5%	1/6W
R964	1-247-843-00	CARBON	3.3K	5%	1/6W
R965	1-247-847-00	CARBON	4.7K	5%	1/6W

R966	1-246-497-00	CARBON	10K	5%	1/4W
R967	1-246-497-00	CARBON	10K	5%	1/4W

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark
<u>VARIABLE RESISTOR</u>			
RV901	1-228-540-00	RES, VAR, CARBON 10K	

	1-606-794-00	N BOARD	*****
	4-342-117-00	CASE, SHIELD (MAIN), R	
	4-342-118-00	LID, SHIELD CASE, R	
<u>CAPACITOR</u>			
C1	1-123-617-00	ELECT 10MF 20% 16V	
C2	1-123-617-00	ELECT 10MF 20% 16V	
C3	1-123-617-00	ELECT 10MF 20% 16V	
C4	1-161-019-00	CERAMIC 0.033MF 10% 25V	
C5	1-108-567-00	MYLAR 0.0033MF 5% 50V	
C6	1-123-821-00	ELECT 47MF 20% 16V	
<u>DIODE</u>			
D1	8-719-110-32	DIODE PH302B	
<u>IC</u>			
IC1	8-759-113-73	IC UPC1373H	
<u>COIL</u>			
L1	1-404-310-00	COIL 4.7MMH	

<u>MISCELLANEOUS</u>			

	1-451-156-71	DEFLECTION YOKE (SY-105)	
	1-452-032-00	MAGNET, DISK; 10mmφ	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15mmφ	
	1-452-146-00	MAGNET, BMC	
	1-452-203-51	GRT NECK ASSEMBLY	
	1-509-849-00	CONNECTOR ASSY, 1P	
	1-543-179-00	CORE, RING	
	1-551-270-00	CORD, POWER	
	1-551-750-00	CONNECTOR ASSY (3P)	
	1-555-019-00	CONNECTOR ASSY, MINIATURE 3P	
	1-555-181-00	CONNECTOR ASSY, MINIATURE 4P	
	1-555-195-00	CONNECTOR ASSY 4P	
	1-555-197-00	CONNECTOR ASSY (2.5MM) 4P	
	1-555-352-00	CONNECTOR, MINIATURE 1P	
	1-555-657-00	CONNECTOR ASSY 1P	
	1-555-852-00	CONNECTOR ASSY, MINIATURE 6P	
	1-556-001-00	CONNECTOR ASSY (2.5MM) 6P	
	1-556-006-00	CONNECTOR, MINIATURE 2P	
	1-556-017-00	CONNECTOR ASSY (2.5MM) 3P	
	1-556-140-00	CABLE, ANTENNA	

Ref.No.	Part No.	Description	Remark
	1-556-194-00	CONNECTOR ASSY (2.5MM) 4P	
	1-556-332-00	CONNECTOR ASSY (2.5MM) 3P	
	1-556-332-00	CONNECTOR ASSY (2.5MM) 3P	
	1-556-408-00	CONNECTOR ASSY (LARGE) 3P	
	1-556-408-00	CONNECTOR ASSY (LARGE) 3P	
	1-556-411-00	CONNECTOR ASSY (2.5MM) 4P	
	1-556-582-00	CONNECTOR ASSY (2.5MM) 2P	
	1-556-583-00	CONNECTOR ASSY (2.5MM) 2P	
	1-556-584-00	CONNECTOR ASSY (2.5MM) 2P	
	1-556-585-00	CONNECTOR ASSY (2.5MM) 2P	
	1-561-825-00	SOCKET, ANTENNA INPUT	
L901	1-426-041-00	COIL, DEGAUSSING	
L902	1-426-041-00	COIL, DEGAUSSING	
RV902	1-215-066-21	RES ASSY, HIGH-VOLTAGE, MVR	
RV903	1-228-544-00	RESISTOR ASSY, HIGH-VOLTAGE, HVR	
S901	1-553-225-00	SWITCH, PUSH	
V901	8-738-405-05	CRT (680DB22)	

ACCESSORIES AND PACKING MATERIALS

Part No.	Description	Remark
A-1470-594-A	COMMANDER ASSY (RM-630)	
X-4361-913-0	BAND ASSY	
4-363-009-00	CUSHION (SPEAKER) (ASSY)	
4-363-010-00	INDIVIDUAL CARTON (KV-2722ES MODEL)	
4-363-613-00	CUSHION (UPPER) (ASSY)	
4-363-614-00	CUSHION (LOWER) (ASSY)	
4-363-615-00	CUSHION (SPEAKER) (ASSY)	
4-363-616-00	INDIVIDUAL CARTON (KV-2720ES MODEL)	
4-363-617-00	TRAY	
4-363-618-00	INDIVIDUAL CARTON (KV-2724ES MODEL)	
4-491-638-00	SCHEMATIC DIAGRAM (B2)	
4-493-727-11	MANUAL, INSTRUCTION	
6-047-001-00	HANDLE	

When indicating parts by reference number, please include the board name.

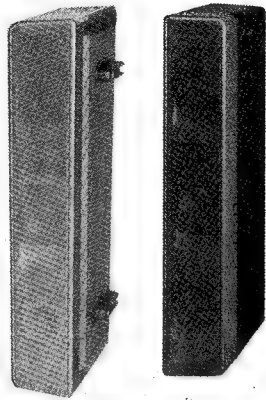
The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

SS-2722/2724

SERVICE MANUAL

October, 1982



SS-2722



SS-2724

SPEAKER SYSTEM
SONY®

EXPLODED VIEW

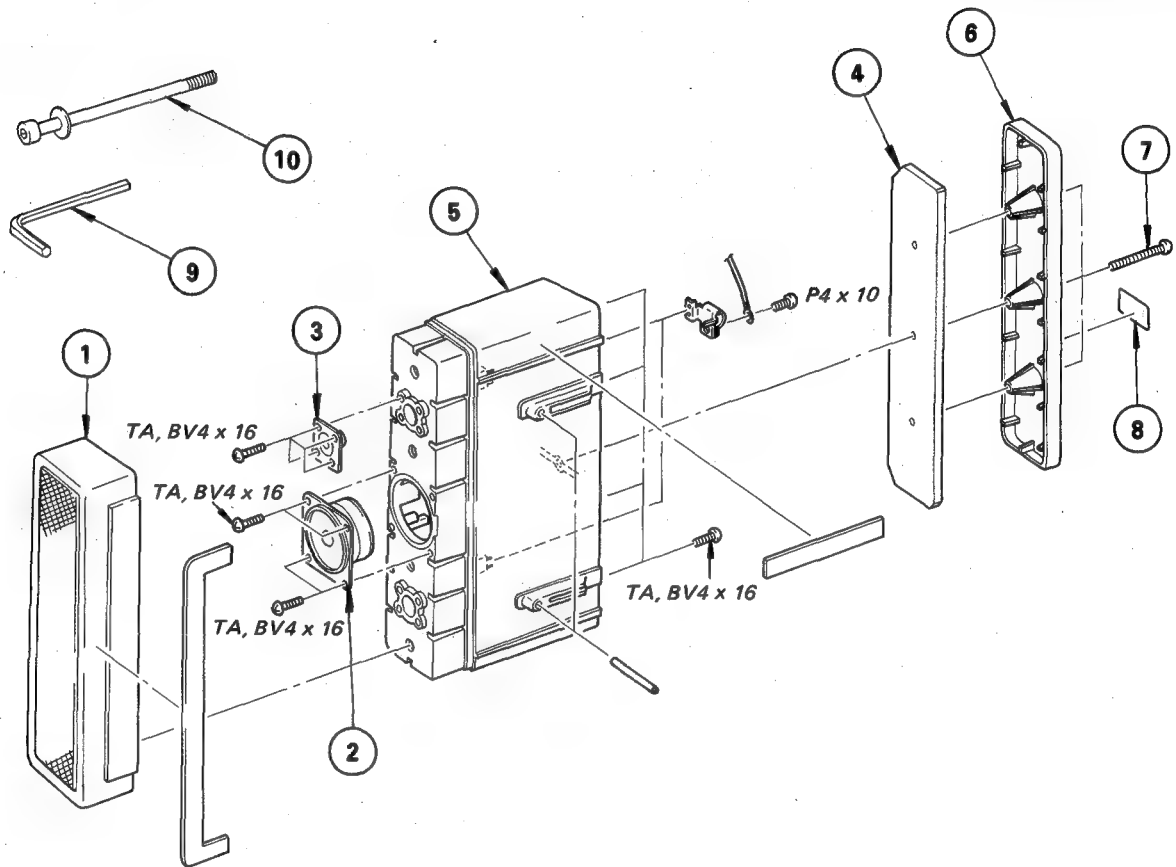
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

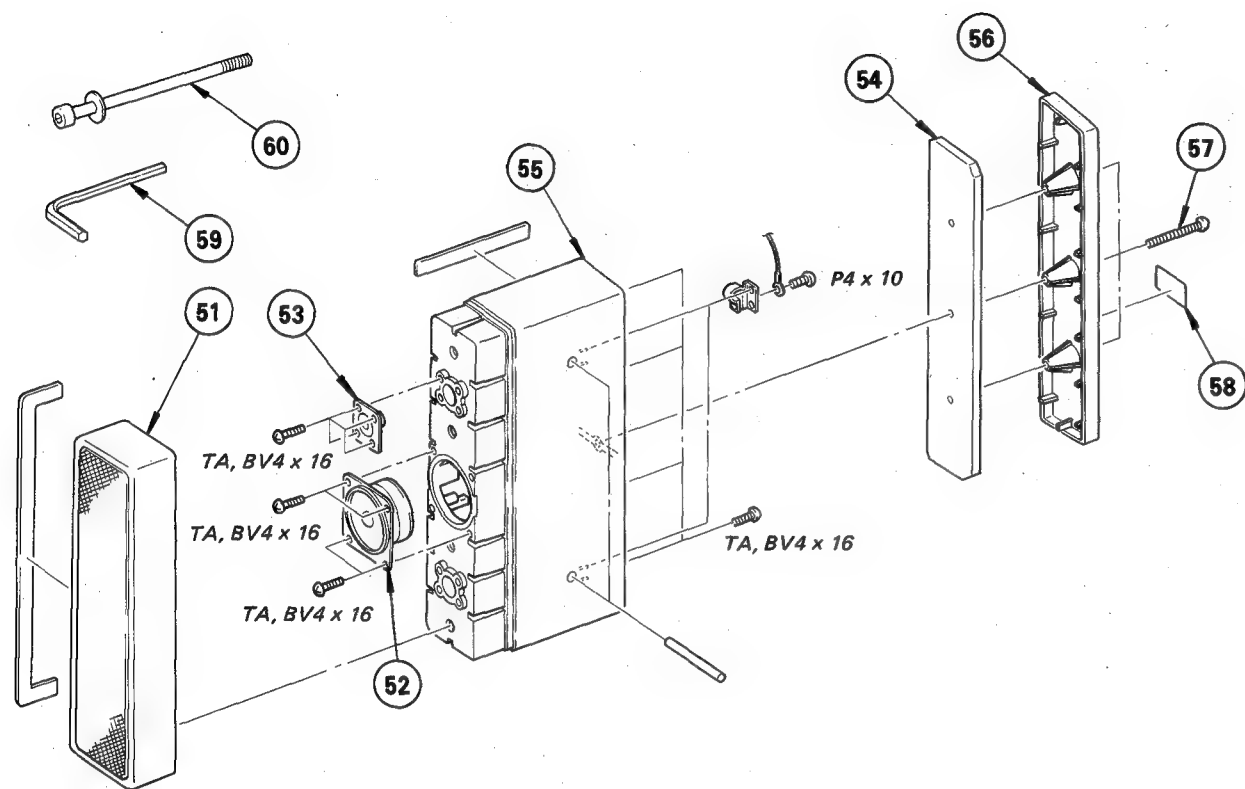
The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

SS-2722 (LEFT)



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	X-2373-802-0	PANEL (SPEAKER.SIDE) ASSY, FRONT		6	2-373-813-00	PANEL (SPEAKER.SIDE) REAR, LEFT	
2	1-503-188-00	SPEAKER		7	4-355-242-11	SCREW, TAPPING, +P	
3	1-503-189-00	SPEAKER		8	▲2-373-818-00	LABEL, MODEL NUMBER (LEFT)	
4	2-373-806-00	BORAD (SPEAKER. SIDE), REAR		9	2-373-803-00	WRENCH, HEXAGON ROD	
5	2-373-810-00	BOX (SIDE), SPEAKER		10	2-373-807-00	SCREW,CAP	

SS-2722 (RIGHT)



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	X-2373-802-0	PANEL (SPEAKER.SIDE) ASSY, FRONT		56	2-373-811-00	PANEL (SPEAKER.SIDE) REAR, RIGHT	
52	1-503-188-00	SPEAKER		58	2-373-817-00	LABEL, MODEL NUMBER (RIGHT)	
53	1-503-189-00	SPEAKER		57	4-355-242-11	SCREW, TAPPING, +P	
54	2-373-806-00	BORAD (SPEAKER. SIDE), REAR		59	2-373-803-00	WRENCH, HEXAGON ROD	
55	2-373-810-00	BOX (SIDE), SPEAKER		60	2-373-807-00	SCREW,CAP	

ELECTRICAL PARTS LIST

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
MISCELLANEOUS			

C901	1-119-195-00	CAP,ELEC 1MF	
C902	1-119-195-00	CAP,ELEC 1MF	
SP901	1-503-189-00	SPEAKER	
SP902	1-503-188-00	SPEAKER	
SP903	1-503-188-00	SPEAKER	
SP904	1-503-189-00	SPEAKER	

ACCESSORIES AND PACKING MATERIALS			

<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	
2-373-712-00	INDIVIDUAL CARTON		
2-373-713-00	CUSHION (SPEAKER LEFT)		
2-373-714-00	CUSHION (SPEAKER RIGHT)		
4-493-726-11	MANUAL, INSTRUCTION		

NOTE:

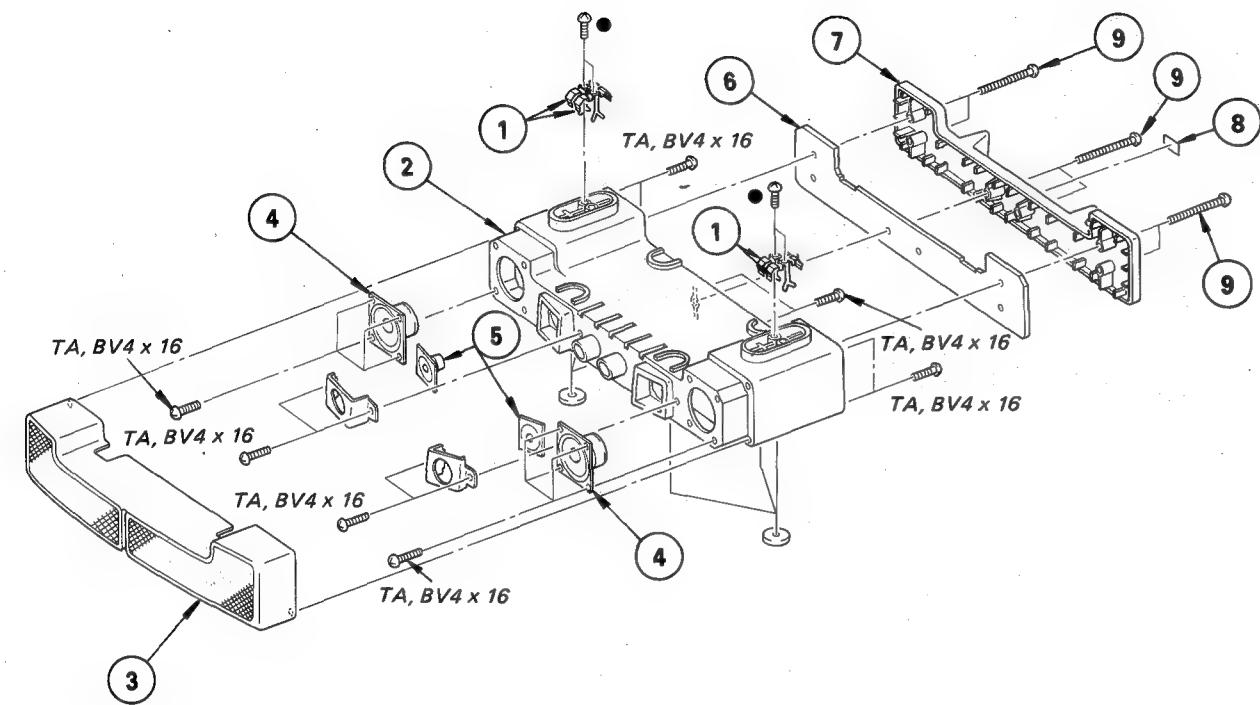
When indicating parts by reference number, please include the board name.

CAPACITORS
• MF : μ F, PF : μ F

EXPLODED VIEW

SS-2724

● : TA, BV3 x 12



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	●:2-373-701-00	TERMINAL, SPEAKER		6	2-373-702-00	BOARD, REAR	
2	2-373-707-00	BOX, SPEAKER		7	2-373-708-00	PANEL, REAR	
3	X-2373-701-0	PANEL ASSY, FRONT		8	●:2-373-711-00	LABEL, MODEL NUMBER	
4	1-503-188-00	SPEAKER		9	4-355-242-11	SCREW, TAPPING, +P	
5	1-503-189-00	SPEAKER					

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

ELECTRICAL PARTS LIST

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
MISCELLANEOUS			

C901	1-119-195-00	CAP,ELEC 1MF	
C902	1-119-195-00	CAP,ELEC 1MF	
SP901	1-503-189-00	SPEAKER	
SP902	1-503-188-00	SPEAKER	
SP903	1-503-188-00	SPEAKER	
SP904	1-503-189-00	SPEAKER	

ACCESSORIES AND PACKING MATERIALS			

<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	
2-373-803-00	WRENCH, HEXAGON ROD		
2-373-807-00	SCREW,CAP		
2-373-819-00	CUSHION (SPEAKER) (ASSY)		
2-373-820-00	INDIVIDUAL CARTON		
4-493-725-11	MANUAL, INSTRUCTION		

NOTE:

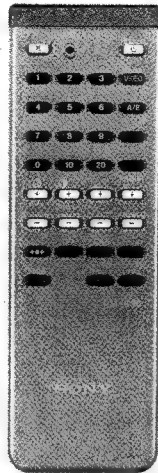
When indicating parts by reference number, please include the board name.

CAPACITORS
• MF : μ F, PF : μ F

RM-630

SERVICE MANUAL

October, 1982



SPECIFICATIONS

Remote control system

Infrared control

Power requirements

3 V dc

2 IEC designation R03 batteries (size AAA)

Dimensions

Approx. 54 × 165 × 16 mm (w/h/d)

Weight

Approx. 100 g including batteries

Supplied accessory

IEC designation R03 battery (2)

Optional accessories

OPK-103 teletext adaptor

OPK-102 SECAM adaptor

SS-2722 speaker system

SS-2724 speaker system

SU-181 stand

VMC-366 video monitor cable (6-pin to 6-pin)

VMC-368 video monitor cable (6-pin to 8-pin)

RK-140 connecting cord (6-pin to BNC and phono)

Design and specifications subject to change without notice.

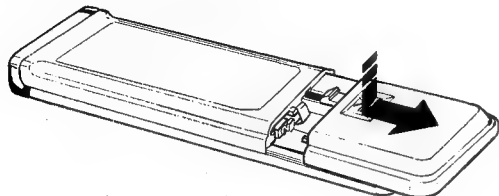
REMOTE COMMANDER
SONY®

1. REMOTE CONTROL OPERATION

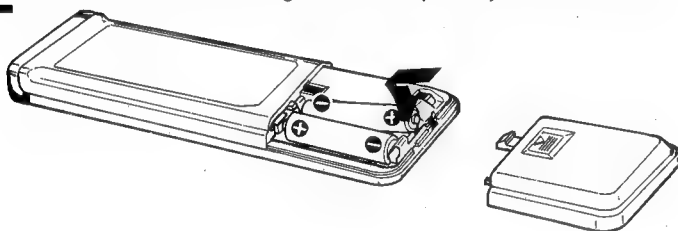
BATTERY INSTALLATION

The Sony RM-630 Remote Commander operates on two supplied IEC designation R03 batteries (size AAA).

- 1** Remove the battery compartment lid.



- 2** Insert batteries observing the correct polarity and close the lid.



FUNCTION OF THE BUTTONS ON THE REMOTE COMMANDER

Each button has different functions for normal TV, teletext and VTR operations.

Functions for operating the TV are indicated **on the button**.

Functions for operating the video tape recorder* are indicated in **orange**.

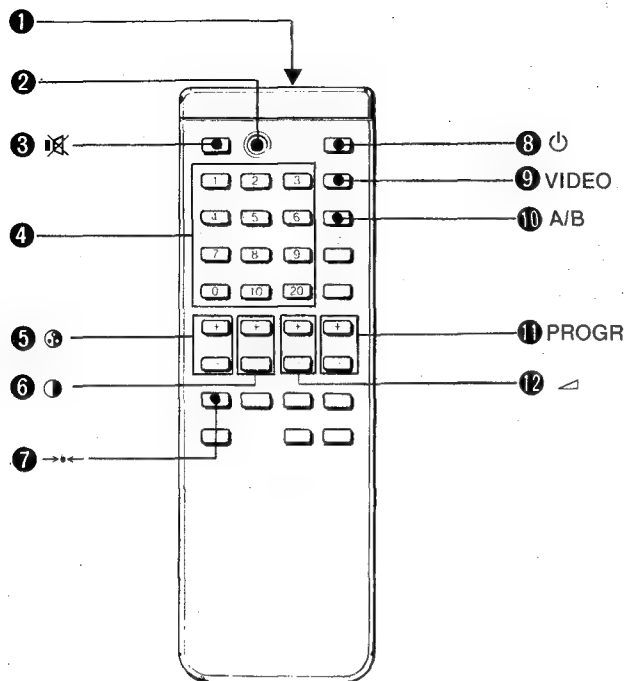
Functions for teletext operation using the optional OPK-103 teletext adaptor are indicated in **green**.

*This Remote Commander can control the Sony SL-F1E combined with the TT-F1 series tuner timer unit, and Sony SL-C9 series.

NOTES ON THE REMOTE COMMANDER

- In normal use, battery life is up to half a year. When the batteries are exhausted, the Commander will not operate the TV properly. If this happens, replace both batteries with new ones.
- When the Commander is not used for a long period of time, remove the batteries to avoid damage from possible battery leakage.
- Keep the Commander away from extremely hot or humid places.
- Avoid dropping any foreign object into the cabinet, particularly when replacing batteries.
- If the TV is turned off with the Remote Commander, the program, sound and picture settings will remain the same when the TV is turned on again.
- If the power supply is interrupted or the ac power cord is disconnected during operation, the TV will enter into the standby mode when the power is restored.

Buttons used for normal TV operations



7 →←← (normal) button

Pushing this button once instantly returns the color and contrast settings made with the 5 and 6 buttons on the Commander to the original levels adjusted with the controls on the TV.

8 ⏻ (power) switch

Turns the TV on or off (standby).

When the TV is turned off with this switch, the ⏻ indicator on the TV will light.

9 VIDEO button

Functions the same as the TV/VIDEO select button on the TV.

10 A/B button

Functions the same as the ZWEITON button on the TV.

11 PROGR (program) buttons

Function the same as the PROGR select buttons on the TV.

12 ▲ (volume) buttons

Adjust the volume. Press the + button to increase the volume, or press the - button to decrease it.

1 Transmitter

Point toward the remote control detector.

2 Pilot lamp

Blinks when the Remote Commander is operating.

3 🔊 (sound mute) button

When you want to mute the sound (to answer the telephone, for instance) press this button. To restore the sound, press this button again.

4 Program number buttons

Programs are selected by pressing the corresponding numbers. For programs 1 through 9, press the appropriate single-digit button. For programs 10 through 19, first press the **10** button (the tens-digit "1" will blink on the program indicator), then the button corresponding to the last digit of the program number (the tens-digit will now stop blinking).

For example: for program 10, press **10** and **0**.
for program 11, press **10** and **1**.

Similarly, for programs 20 to 29, press the **20** button and then the single-digit button.

For program 30, press the **0** button.

Note: If you do not press a single-digit button within several seconds after pressing the **10** or **20** button, the previous program setting will be automatically recalled.

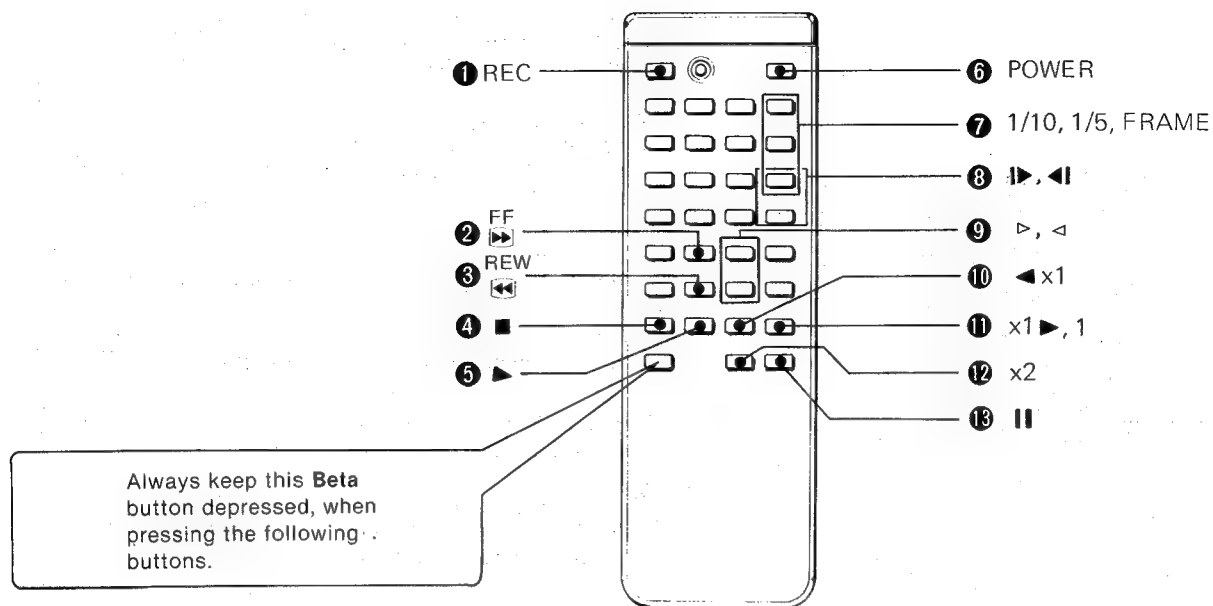
5 ⚙ (color) buttons

Adjust the color intensity. Press the + button to increase it, or press the - button to decrease it.

6 🖼 (picture) buttons

Function the same as the 🖼 control on the TV. Press the + button to increase the picture contrast, or press the - button to decrease it.

Buttons used for VTR operations



Buttons which have the same functions for both SL-C9 series and SL-F1E

① REC (record) button

Press to start recording.

② FF (fast-forward) button

Press to advance the tape rapidly. This button is also used for the forward picture-search operation.

③ REW (rewind) button

Press to rewind the tape. This button is also used for the reverse picture-search operation.

④ ■ (stop) button

Press to stop the tape.

⑤ ► (play) button

Press to play the tape back.

⑥ POWER switch

Press to turn the video tape recorder (and the tuner timer unit) on or off.

⑫ x2 (double-speed) button

Functions the same as the x2 button on the video tape recorder. Press to obtain a double-speed playback picture.

⑬ || (pause) button

Functions the same as the || PAUSE button on the SL-C9 series and the PAUSE button on the SL-F1E. To release the pause mode, press this button again.

Buttons used for the SL-C9 series

⑦ Speed control buttons (1/10, 1/5, FRAME)

Function the same as the 1/10, 1/5 and FRAME of the SPEED CONTROL buttons on the recorder.

⑨ ▷ (forward) and ◁ (reverse) buttons

Select the direction of the speed control playback. Function the same as the ▷ and ◁ buttons of SPEED CONTROL buttons on the recorder.

⑪ 1 (normal speed) button

Functions the same as the 1 button of the SPEED CONTROL buttons on the recorder.

Buttons used for the SL-F1E

⑧ ► (forward slow motion) and ◁ (reverse slow motion) buttons

Function the same as the ► and ◁ SWING SEARCH buttons on the SL-F1E.

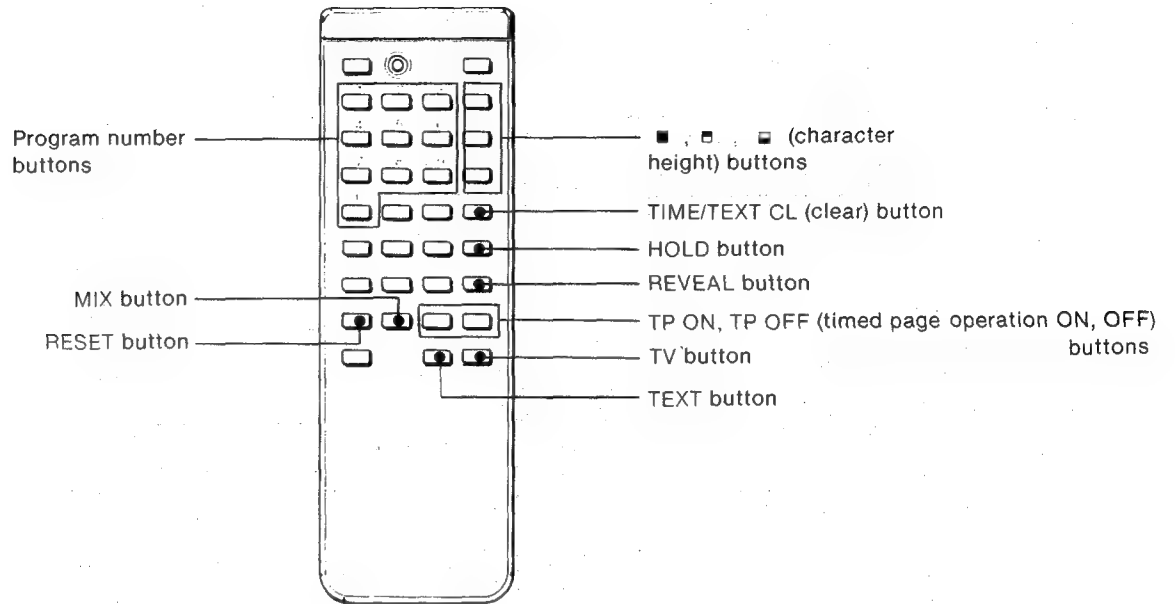
⑩ ◁ x1 (reverse) button and ⑪ x1 ► (forward) button

Function the same as the ◁ and ► SWING SEARCH buttons on the SL-F1E.

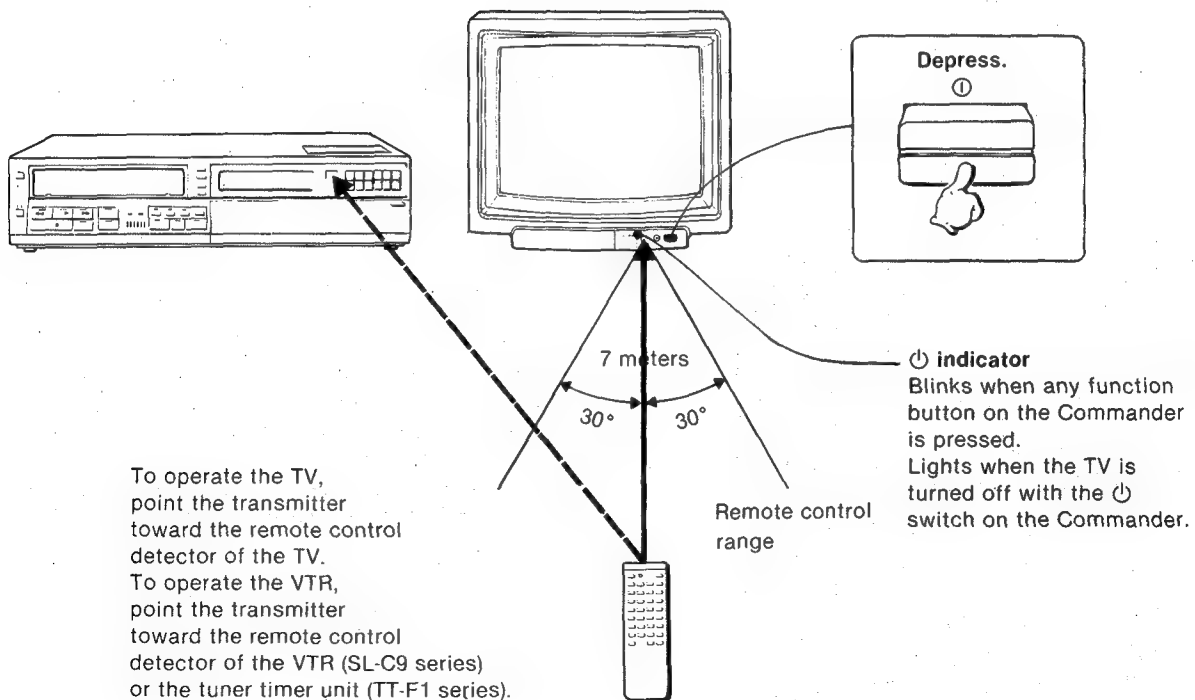
Buttons used for teletext operations

The following functions are for operating the optional Sony OPK-103 teletext adaptor.

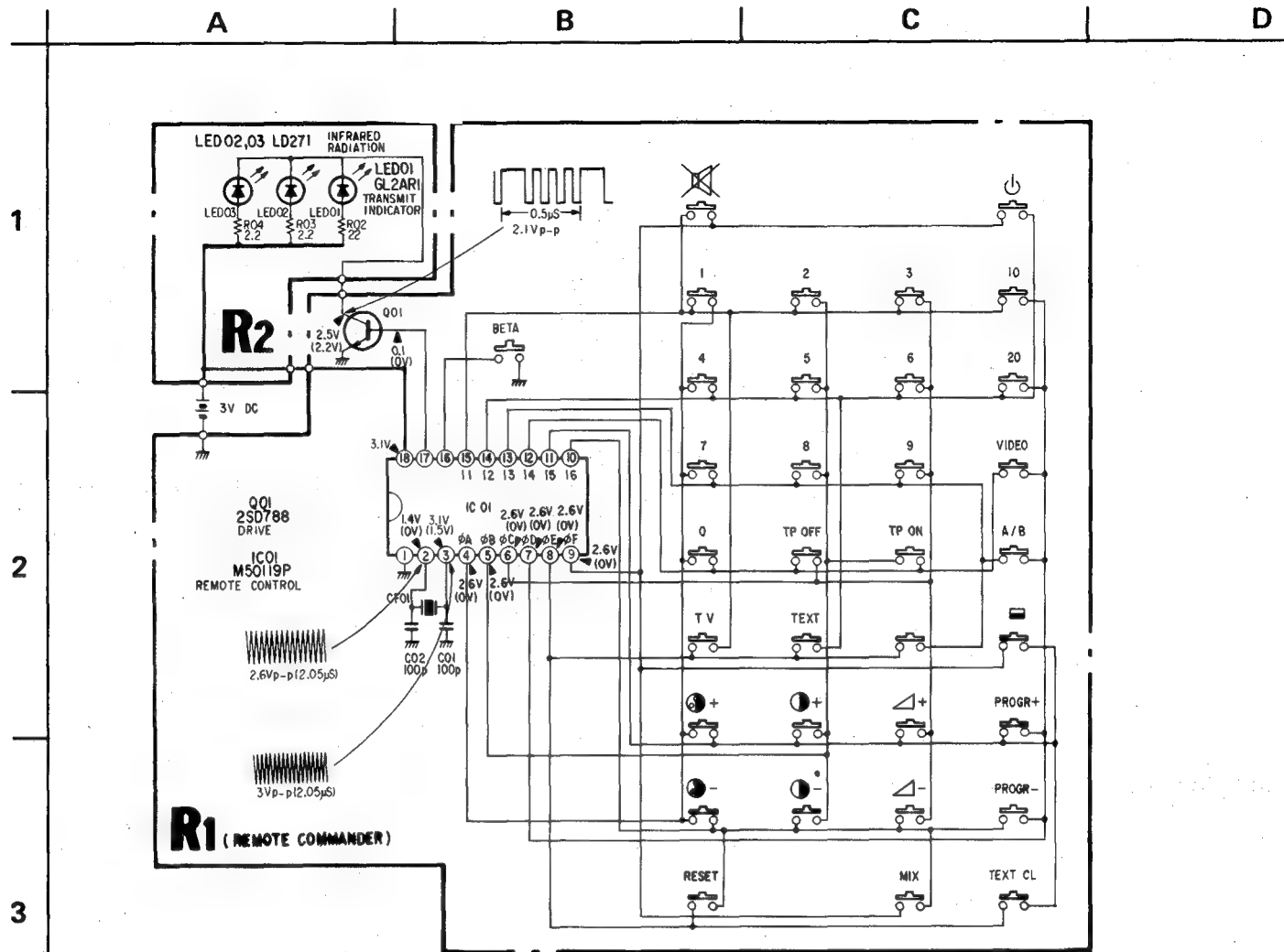
For details, please read the instruction manual of the OPK-103.



OPERATION



2. SCHEMATIC DIAGRAM

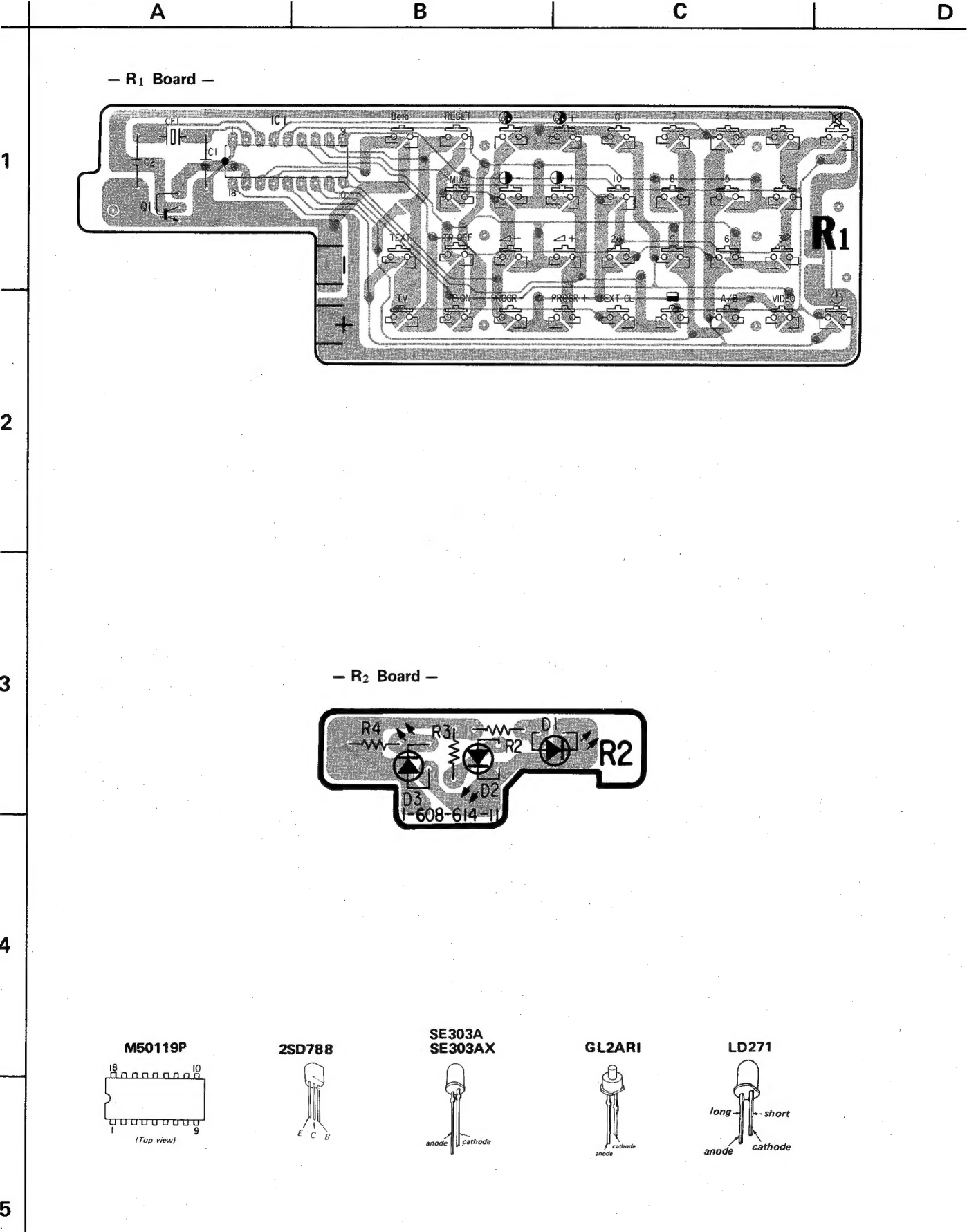


MODE	IC PIN	10	11	12	13	14	15	16	17
POWER		3.1	3.1	3.1	3.1	2.6	3.1	3.1 (0.15)	0
1		3.1	3.1	3.1	3.1	3.1	2.6	3.1 (0.15)	0
2		3.1	3.1	3.1	3.1	3.1	2.6	3.1 (0.15)	0
3		3.1	3.1	3.1	3.1	3.1	2.6	3.1 (0.15)	0
4		3.1	3.1	3.1	3.1	2.6	3.1	3.1 (0.15)	0
5		3.1	3.1	3.1	3.1	2.6	3.1	3.1 (0.15)	0
6		3.1	3.1	3.1	3.1	2.6	3.1	3.1 (0.15)	0
7		3.1	3.1	3.1	2.6	3.1	3.1	3.1 (0.15)	0
8		3.1	3.1	3.1	2.6	3.1	3.1	3.1 (0.15)	0
9		3.1	3.1	3.1	2.6	3.1	3.1	3.1 (0.15)	0
0		3.1	3.1	2.6	3.1	3.1	3.1	3.1 (0.15)	0
10		3.1	3.1	3.1	3.1	3.1	2.6	3.1 (0.15)	0
20		3.1	3.1	3.1	3.1	2.6	3.1	3.1 (0.15)	0
VIDEO		3.1	3.1	2.6	3.1	3.1	3.1	3.1 (0.15)	0
TP OFF		3.1	3.1	2.6	3.1	3.1	3.1	3.1 (0.15)	0.2
TP ON		3.1	3.1	2.6	3.1	3.1	3.1	3.1 (0.15)	0.2
A/B		3.1	3.1	3.1	2.6	3.1	3.1	3.1 (0.15)	0.2
TV		3.1	3.1	3.1	3.1	3.1	2.6	3.1 (0.15)	0
TEXT		3.1	3.1	3.1	3.1	2.6	3.1	3.1 (0.15)	0
VIEWDATA		3.1	3.1	3.1	2.6	3.1	3.1	3.1 (0.15)	0
VIEWDATA		3.1	2.6	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
+		3.1	2.6	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
-		2.6	3.1	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
+		3.1	2.6	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
-		2.6	3.1	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
+		3.1	2.6	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
-		2.6	3.1	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
PROGR +		3.1	2.6	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
PROGR -		2.6	3.1	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2
RESET		2.6	3.1	3.1	3.1	3.1	3.1	3.1 (0.15)	0
MIX		2.6	3.1	3.1	3.1	3.1	3.1	3.1 (0.15)	0
TEXT CL		3.1	2.6	3.1	3.1	3.1	3.1	3.1 (0.15)	0.2

- Voltages and waveform are for when **A/B** button is pressed.
- Voltages in () are taken with button not pressed.
- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted. k: 1000 Ω , M: 1000 k Ω
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

3. PRINTED WIRING BOARDS

- Conductor Side -



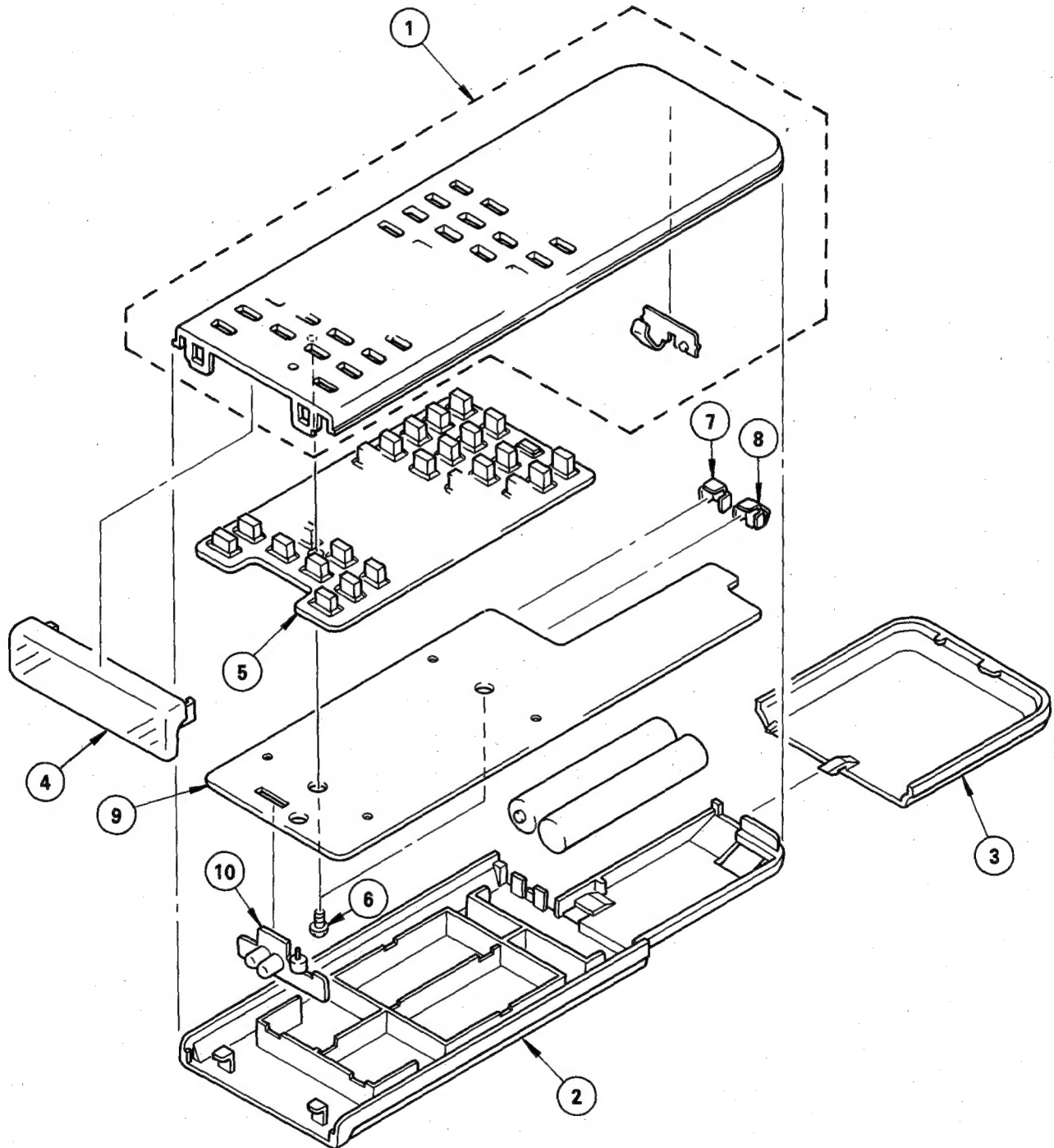
4. EXPLODED VIEW

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	X-4361-904-0	CASE (UPPER) ASSY		6	4-356-741-00	SCREW, TAPPING (BIND 2X5)	
2	4-361-948-00	CASE (LOWER), COMMANDER		7	4-348-542-00	TERMINAL (A), BATTERY	
3	4-361-945-00	COVER, BATTERY		8	4-348-543-00	TERMINAL (B), BATTERY	
4	4-361-943-00	PANEL, FRONT, COMMANDER		9	▲:1-608-613-00	R1 BOARD	
5	4-361-944-00	SHEET, RUBBER		10	▲:1-608-614-00	R2 BOARD	

5. ELECTRICAL PARTS LIST

NOTE:

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "⚡" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS • MF : μ F, PF : μ F	RESISTORS • All resistors are in ohms • F : nonflammable
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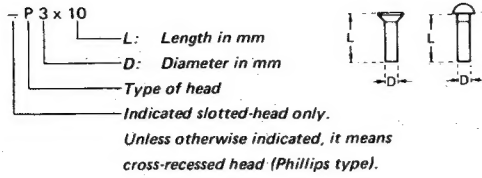
When indicating parts by reference number, please include the board name.

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>			
	⚡:1-608-613-00	R1 BOARD *****				
	4-348-542-00	TERMINAL (A), BATTERY				
	4-348-543-00	TERMINAL (B), BATTERY				
<u>CAPACITOR</u>						
C01	1-161-271-00	CERAMIC	100PF	5%	50V	
C02	1-161-271-00	CERAMIC	100PF	5%	50V	
<u>FILTER</u>						
CF01	1-527-476-00	OSCILLATOR, CERAMIC				
<u>IC</u>						
IC01	8-759-600-07	IC M50119P				
<u>TRANSISTOR</u>						
Q01	=>8-729-177-32	TRANSISTOR 2SD773				

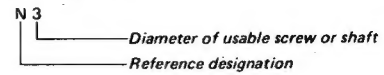
	⚡:1-608-614-00	R2 BOARD *****				
<u>DIODE</u>						
LEF01	8-719-900-23	DIODE GL2AR1				
LED02=>	8-719-193-03	DIODE SE303AX				
LED03=>	8-719-193-03	DIODE SE303AX				
<u>RESISTOR</u>						
R02	1-247-791-00	CARBON	22	5%	1/6W	
R03	1-247-767-00	CARBON	2.2	5%	1/6W	
R04	1-247-767-00	CARBON	2.2	5%	1/6W	

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazier-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	